Ballard Spahr

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June 14, 2019

Via E-mail

Andrea Leshak, Esq.
Office of Regional Counsel
U.S. Environmental Protection Agency,
Region 2
290 Broadway, 17th Floor
New York, New York 10007-1866

Re: PROTECO Site in Puerto Rico

Dear Ms. Leshak:

This is the response made on behalf of SmithKline Beecham Pharmaceuticals Co. ("Pharmaceuticals") to the United States Environmental Protection Agency's ("EPA's") March 28, 2019 Request for Information addressed to James Ford with respect to the above-referenced site (the "RFI").

By way of introducing the parties, Pharmaceuticals, a Delaware corporation, was incorporated on or about July 22, 1970 as SK&F Mfg. Co., which later changed its name to SK&F Lab Co. Pharmaceuticals is a wholly owned subsidiary of GlaxoSmithKline LLC ("GSK").

This response is based upon Pharmaceuticals' and GSK's search for documents and information in their possession relating to the former Pharmaceuticals facility located at South Main Street, Sabana Gardens Industrial Park, Carolina, Puerto Rico (the "Facility"), which is the subject of the RFI, and to the PROTECO Site.

Pharmaceuticals believes that a Closure Plan and Closure Certification for the Facility was filed with EPA in or about late 1989. Neither Pharmaceuticals nor GSK has that document in its possession, but that document should be in the possession of EPA. That document likely contains information that would be relevant to the RFI.

Pharmaceuticals reserves its right to continue to review and to supplement, modify, and/or amend its responses should additional information become available.

Pharmaceuticals' Response to EPA's Request for Information

Pharmaceuticals objects to the instructions provided with the RFI, the definitions, and the requests to the extent any of those exceed the authority given to EPA in 42 U.S.C. § 9604.

Subject to these objections, Pharmaceuticals responds as follows with respect to the Carolina facility:

- 1. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, the mailing address for Pharmaceuticals and GSK is 5 Crescent Drive, Philadelphia, PA 19112.
- 2. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, SK&F Mfg. Co. was incorporated on or about July 22, 1970 in Delaware. On or about May 25, 1976 the name of the corporation was changed to SK&F Lab Co. On or about April 17, 1990 the name of the corporation was changed to SmithKline Beecham Pharmaceuticals Co. Pharmaceuticals is a wholly owned subsidiary of GSK.
- 3. See response to Request No. 2.
- 4. See response to Request No. 2.
- 5. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, Pharmaceuticals' authority to do business in Puerto Rico was obtained on or about April 6, 1976 and withdrawn on or about December 29, 2010.
- 6. Operations at the Facility began in or about 1970 on leased land. Operations ceased in or about July 1987 and the plant was sold to ICI Pharmaceuticals P.R. Inc. Pharmaceuticals is continuing its search for relevant lease and sale documents.
- 7. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e).
- 8. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, the Facility consisted of a main building that included areas for administration, pharmaceutical preparation, packaging, chemical production, and warehousing for raw materials and finished goods. See Facility Drawing included in attached Pharmaceuticals' November 14, 1980 Interim Status RCRA Permit Application No. PRD 000706424. There was a separate warehouse for additional storage of equipment and material. *Id.* Initial operations were the production of Diazide® and Direnium® in finished product form

and the manufacture of Stelazine® base and finished Stelazine® product. Those operations were relocated to a facility in Cidra, P.R. in the late 1970s, at which time the Facility was renovated for the production of Tagamet® tablets, injectables, and oral liquid dosage forms. Stelazine® chemical base continued to be produced on an intermittent basis at the Facility. In or about 1982 production of Tagamet® was relocated to a facility in Cidra, P.R., following which the Facility was used for administrative offices, warehousing, and distribution and packaging operations for Tagamet®. Tagamet® production generally consisted of: mixing cimetidine powder with edible non-drug material for compaction and pressing; tablet coating with edible substances; and printing of brand name on capsules and tablets. In or about the early 1980s chemical manufacturing operations were relocated to a facility in Guayama, P.R.

- 9. See response to Request No. 2.
- 10. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, see response to Request No. 6.
- 11. Pharmaceuticals has not identified any documents or information responsive to this request.
- 12. Pharmaceuticals has not identified any documents or information responsive to this request.
- 13. Pharmaceuticals has not identified any documents or information responsive to this request.
- 14. Pharmaceuticals has not identified any documents or information responsive to this request.
- 15. Pharmaceuticals has not identified any documents or information responsive to this request.
- 16. See response to Request No. 2.
- 17. Pharmaceuticals has no information or document reflecting transactions involving the Site.
- 18. See attached documents, including: March 20, 1981 Environmental Survey; June 28, 1985 Pharmaceuticals' response to EPA comments on RCRA Part B Permit Application; March 18, 1981 Pharmaceutical Application for Approval for the Operation of Emission Sources in Puerto Rico; Environmental Quality Board Air Pollutant Emissions Summary; Pharmaceuticals' November 14, 1980 Interim Status

- RCRA Permit Application No. PRD 000706424; and "Used in Cidra-Carolina," noting that this document includes materials that may have been used only in Cidra...
- 19. See response to Request No. 18.
- 20. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, see response to Request No. 18.
- 21. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, Pharmaceuticals has not identified any documents or information responsive to this request.
- 22. Pharmaceuticals has not identified any documents or information responsive to this request.
- 23. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, Pharmaceuticals has not identified any documents or information responsive to this request.
- 24. Pharmaceuticals has not identified any documents or information responsive to this request.
- 25. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, Pharmaceuticals has not identified any documents or information responsive to this request.
- 26. Pharmaceuticals has not identified any documents or information responsive to this request.
- 27. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e). Without waiving such objection, Pharmaceuticals has not identified any documents or information responsive to this request.
- 28. Pharmaceuticals has not identified any documents or information responsive to this request other than those provided herewith.
- 29. Pharmaceuticals' and GSK's investigation is continuing.
- 30. Pharmaceuticals objects to this request as beyond the authority granted in CERCLA Section 104(e).
- 31. Pharmaceuticals has not identified any documents or information responsive to this request.

Andrea Leshak, Esq. June 14, 2019 Page 5

- 32. Pharmaceuticals has not identified any documents or information responsive to this request.
- 33. Pharmaceuticals has not identified any documents or information responsive to this request.
- 34. The undersigned counsel for Pharmaceuticals drafted this response. He has no personal knowledge of the responses. Searches for responsive documents were supervised by Andrew Boczkowski, Esq. (Assistant General Counsel), Justin Huang, Esq. (Senior Counsel), and Jan Landwehr (paralegal), each of GSK. None of these personnel has personal knowledge of the responses.

Very truly yours,

Glenn A. Harris

GAH/mds

cc: Zolymar Luna

File: PR. SKF- - Carolina (Gen'l File)

SKEE

FEDERAL EXPRESS DELIVERY

SK&F LAB CO.

P.O. Box 3930, Carolina, Puerto Rico 00630

June 28, 1985

Eng. James Reidy, Chief PERMIT SECTION-Solid Waste Branch **ENVIRONMENTAL PROTECTION AGENCY** Region II 26 Federal Plaza New York, New York 10278

Corporate Environmental Services SmithKline Corporation

JUL 8 - 1985

RECEIVED

RE: TECHNICAL EVALUATION OF PART "B" PERMIT APPLICATION EPA ID No. PRD000706424

Dear Mr. Reidy:

Herewith is SK&F LAB CO's response to the comments issued by Environmental Protection Agency (EPA) upon our RCRA PART "B" Permit Application. These comments were received at our office by means of your letter dated May 24. 1985.

The attached handbook contains our PART "B" PERMIT APPLICATION of September 8, 1983 as revised after responding to EPA comments of December 14, 1984 and May 24, 1985.

If you have any questions regarding our responses, please feel free to contact me at your earliest convenience at (809) 757-8070 Ext. 3264.

Cordially yours,

all a levedo Carlos A. Acevedo

Manager, Safety & Env. Eng.

CAA:sfr

c: Eng. Jesus Medero EQB Eng. Ismael Guzman SK&F Eng. James Hagan

ESEF 100012138



RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRD 000706424

ESEF 100012139 SK&F LAB CO RESPONSE - 6/28/85 EPA COMMENTS - 5/24/85 A : PART "A" APPLICATION : A-! Please give a reason why the estimated annual quantity of : Estimated annual quantity of wastes has been reduced by 77,760 kilograns per : year because early in 1981 the small chemical manufacturing facility that we wastes has been reduced to 26,900 kilograms per year as indicated in the revised Part "A" Permit application from: were operating within this site was transferred to our Chemical Division : Plant in Guayama, Puerto Rico. After this move the hazardous waste 104,660 kilograms per year notified in the original : generation potential was reduced significantly. Part "A" Permit Application. : Revised Part "A" Permit Application is included. (See Handbook Pages 8 : A-2 Since the maximum capacity of the drum storage area is eighty drums as indicated in Part "B" permit application, : the revised Part "A" permit application must be submitted to show this change. : IN-LINE NEUTRALIZATION : Analysis of wastes neutralized in this facility are not available data is B-I Please provide analysis of hazardous wastes neutralized four (4) year old. However, the neutralized wastes were hazardous solely in the in-line neutralization process. : because their pH was extreme low (2.0). : M-Aminobenzotrifiuoride is reacted with caustic soda in a solvent media to : B-2 Describe the in-line neutralization process and method form Fluamine, an intermediate of the process. Unreacted M-Aminobenzotriemployed to neutralize the wastes. fluoride in the Fluamine Batch is then removed with excess muriatic acid and water washes, this layer being removed after in-line neutralization with potassium carbonate to pH above 7.0. The water layer is discarded through drain.

RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRD 000706424

	RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRD 000706424							
TO THE STATE OF TH	EPA COMMENTS - 5/24/85	: SK&F LAB (O RESPONSE - 6/28/85 :						
С	TRAILER TRAILER C-1 Identification and quantity of the hazardous wastes stored in the trailer must be provided, including a copy of the manifest noted as L81-1, May 26, 1981.	Copy of the Manifest L81-1, May 26, 1981 is attached. All materials listed on this manifest were stored in the trailer before transfering them to the Hazardous Waste Containers Storage Area. Further explanation is given on C-2 below.	_					
	C-2 Please explain why the trailer was utilized during the period of August, 1980 to May, 1981 in spite of the fact that the hazardous waste container storage area was already in operation.	Since the decision was made to transfer the chemical manufacturing operations to Guayama, P.R. a inventory built up was required to continue the manufacturing of associated tablet while the move takes place. This special manufacturing schedule required additional storage facilities to manage the adnormal material flow. A trailer was lease for this purpose. Recovered solvents from the chemical operation were placed on a raw material quarentene area (flammables vault) until quality control analysis were performed to determine if solvents were spent or could be reused back in the process. Once any of the solvents were declared spent, they were move to our Embargo Area (Storage Trailer), until all debits from production scheduled were made and decision made to discard them or derive any other beneficial use. Once a decision for discarding were made, spent solvents were transferred to our Hazardous Waste Containers Storage Area. These solvents were not hold more than 90 days in the Embargo Trailer and neither accumulated beyond 1,000 kilos in it.	- ! :					
	: C-3 Please provide a leasing contract or any document to show the name of the leasing company and leasing period.	: This trailer was leased from P.R. Marine Management, Inc. (Navieras de : Puerto Rico). Being a five year old contract we have not find it yet.	-					
	.; .; .;	: :						

RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRO 000706424

**********	EPA COMMENTS - 5/24/85	SK&F LAB CO RESPONSE - 6/28/85				
D	: FACILITY DESCRIPTION : D-I The basis for classifying the hazardous wastes generated : from the facility as D001, D002, D003, F002 and F005, : must be explained. For example, waste classified as : D001 must be accompanied with its flash point.	Please refer to the attached handbook, pages 61, 63, 64 and Appendix D (page 174 to 178 — Part I).				
	: D-2 As per 40 CFR 270.14(b)(19), the following requirements : must be included on the topographic map: : - Date : - Run-off control system, storm, sanitary, and : process sewerage systems, and loading and : unloading areas : - Contour lines	Please refer to attached handbook Map (Drawings TM-1 & TM-2). Pages 47 & 48				
	: D-3 The boundary of the facility shown in the Figure (4), is contradicted to that in the Figure (5).	Contradictions were corrected.				
	D-4 Please provide the topographic map at the scale of 1 inch : equal to 200 feet.	Topographic map is included on attached handbook(Drawings TM-1 and TM-2). Pages 47 and 48.				
-	: D-5 The following traffic routes must be indicated: - For carrying storage drums from the process areas to the drum storage area For trucks to be loaded and/or unloaded:	Please refer to Topographic Map. Pages 47 and 48 of handbook.				

RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRD 000706424

	EPA COMMENTS - 5/24/85	SK&F LAB CO RESPONSE - 6/28/85					
E	 ignitable, corrosive and reactive. Please indicate their respective flash point, pH and conditions under which the wastes start to react. 	Revised Table I is included (Page 61 of handbook). However, as to specify the conditions under which reactive wastes start to react is highly difficult. We are refering as D003 to laboratory off. Specification commercially available reagents that could be cyanide or sulfide bearing wastes under extreme pH conditions. We decided to manage as hazardous reactive waste all rejected commercial laboratory reagents that show in their chemical formula any sulphur or cyanide radical. (Not listed in CFR 261.33).					
	E-2 If the rejected and unused raw materials and laboratory reagents are to be stored in the drum containers which were originally shipped at the time of purchase for approval of establishing compatibility of wastes with the drums, please describe the procedures utilized to assure what each containers store is the wastes stored originally and so they are compatible to each other.	Refer to attached procedure — SA-1014.					
	E-3 Procedures for characterizing collected leak, spills, and run-off must be described.	Refer to attached procedure — SA-1011.					
·-		Contracted Laboratory: Environmental Quality Laboratories, Inc. (EQ Lab) P. O. Box 8723 Santurce, P. R. 00910 Tels: (809) 725-5333 (809) 725-3708 Their QA/QC Plan will follow. Contracted Lab. claim that this document is too big and confidential. They will prepare a summary for EPA use.					

RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRO 000706424

	EPA COMMENTS - 5/24/85	SK&F LAB CO RESPONSE - 6/28/85
9	E-5 Table 3 must document which specific method is used for organic analysis. If more than one method is used, the reasons or circumstances under which each is used must be specified. Method 8010 will not detect methanol and method 8020 is recommended for use in determining aromatic volatile organics.	Revised Table 3 is attached — Page 65
	: E-6 Please describe or provide document of "Internal Written : Procedures" to be used for sampling.	: : Internal written procedure is attached — SA-1020 and SA-1021. :
F	: PROCESS INFORMATION : F-I English translation of "Standard Operating Procedures" : utilized to fill and empty the waste tank is necessary : for reviewing. The procedures should include how the : waste flow in the waste tank is controlled and what : criteria are used to determine whether the collected : wastes are hazardous.	English translation of all spanish procedures are included.
	: F-2 A reference document (Permit Writers Guidance Manual : for Hazardous Waste Tanks, EPA Contract 68-01-6515 : WA 02-004) is enclosed for cualculating the minimum : shell thickness of the storage tank. Please provide : the minimum shell thickness.	According to UL 142 (see Appendix F Tank Survey) Pages 276 to 283, the minimum shell tickness of a horizontal carbon steel tank with capacity between 1,101 to 9,000 gallons should be 0.167 inches.

RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRD 000706424

	EPA COMMENTS - 5/24/85	SK&F LAB (O RESPONSE - 6/28/85					
	: F-3 Demonstrate the compatibility of the hazardous wastes with the tank construction and coating materials, and additionally the rate of tank corrosion or erosion must be provided. :	This tank and its coating had being in contacted with the waste since early 1977 when accumulation started. The tank survey performed in April 1984 (Appendix F-Page 276) demonstrated that the system is compatible with the waste, since NO significant erosion or corrosion was detected. We are including herewith information of compatibility of the Carbo Zinc II coating with Methylene Chloride, as provided by the Manufacturer (refer to pages 300 to 305 of the attached handbook). We has initiated business with the Mogul Corporation to implement (if feasible) a Test Corrosion Coupon Program in this tank to determine corrosion rate on both coated and uncoated material of construction. Please refer to SOP-SA-1014.					
G	PROCEDURES TO PREVENT HAZARDS G-I As per 40 GFR 264.14(c), spanish and english signs must be posted.	: : All signs will be posted both in english and spanish. :					
	: G-2 Please provide english translation of the Inspection forms.	Inspection forms translated to english are herewith included, and inserted on handbook.					
	: G-3 The frequency of inspection depends on a corrosion : allowance and the rate of corrosion. It is recommended : to have the external tank inspection every two years to : determine the tank thickness and the detailed internal : inspection every 5 years.	Tank inspection will be implemented as you recommend. See SOP—SA—1015 attached.					
	: G-4 As per 40 GFR 264.194(b), the procedures to be employed to perform the internal tank inspection must be described:	: Written procedure is attached — SOP—SA—1016.					

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RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NUMBER PRO 000706424

	u Li		100012145
	EPA COMMENTS - 5/24/85	SK&F LAB CO RESPONSE - 6/28/85	1000
	: G-5 The company is responsible for compliance with 40 CFR : 264.52(c). The requirements can be achieved either by : reaching agreements or by documenting refusal as mentioned in 40 CFR 264.37(b). However, in either way, : the company's attempt to reach agreements and its reached : agreements or refusals must be documented and submitted : with the Part "B" permit application.	Please refer to handbook — Pages 123b to 123zg	ESEF
	: G-6 Please describe the capacity of emergency equipment.	Please refer to page 94C of handbook. A list of all emergency equipment an materials available in site are provided.	nd
Н	: CLOSURE PLAN : H-I Describe criteria used to determine whether collected : and decontaminated materials are hazardous.	Please refer to revised Closure Plan, pages 131 to 1385.	
S econdarion	: H-2 The revised page 133 still shows that the off-site : landfill will be used to remove the drum containers : which is not the policy of the company. Correction is required.	Please refer to attached revised Closure Plan.	
	: H-3 The revised page 138 of "Closure Cost Estimated" shows that the hazardous waste in the storage tank will be transferred to the drum containers before shipping to the off-site incinerator. However, it is inconsistent with the procedures described for the removal of the hazardous wastes in the tank. Correction is required.	Please refer to attached revised Closure Plan.	

RESPONSE TO TECHNICAL EVALUATION OF PART B PERMIT APPLICATION SK&F LAB CO - CAROLINA, P. R. EPA ID NLMBER PRD 000706424

EPA COMMENTS - 5/24/85	SK&F LAB CO RESPONSE - 6/28/85	

: H-4 Rafael Cruz Perez is not an independent professional
: engineer, so he is not qualified to the closure
: certification.

: Rafael Cruz Perez is not an employee of SK&F Lab Co neither of any : SmithKline-Beckman Company. He is a well known consultant in P. R. that : provide independent services to various industries.

ENVIRONMENTAL SURVEY

SK&F LAB CO.
MAIN STREET
SABANA GARDENS INDUSTRIAL PARK
P.O. BOX 3930 CERAMICA ANNEX
CAROLINA, PUERTO RICO

DATE: MARCH 20, 1981 CONTACT: CARLOS ACEVEDO SURVEYOR: RENATO D. ASUNCION

The SK&F Lab Co. facilities are located on approximately 5 acres of leased ground and consist of:

- a main building including areas for administration, pharmaceutical preparation, packaging, chemical production, and warehousing for raw material and finished goods;
- a warehouse area (across the street) for additional storage of equipment and material.

Operations were begun early in 1970 with the production of 'Diazide' and 'Direnium' in finished product form and the manufacture of 'Stelazine' base and finished 'Stelazine' product.

In the late 1970's, the production of finished 'Diazide', 'Direnium' and 'Stelazine' was relocated to a new facility in Cidra, and the Carolina facility was renovated for production of 'Tagamet' tablets, injectables and oral liquid dosage forms. 'Stelazine' chemical base continued to be produced at Carolina on an intermittent basis.

By mid 1982, manufacture of 'Tagamet' dosage forms will be relocated to a new facility in Cidra (Cidra II). After this time the Carolina facility will consist of administrative offices, warehousing and distribution and packaging operations for 'Tagamet'. A decision on relocation of the 'Stelazine' base production unit has not been made at this time.

Major environmental systems serving this plant are:

- 4 dust collectors
- 3 boilers
- vacuum cleaners
- a carbon adsorption unit for solvent laden air control

Corporate Environmental Services conducted an environmental survey of this site on March 20, 1981, which covered water supply, wastewater, solid waste, air pollution and spill control plan. These survey modules are discussed below.

Water Supply

The Puerto Rico Aqueduct and Sewer Authority (PRASA) supplies water for domestic, process, sanitary and utility purposes. There are no water wells installed in the plant; therefore, the analyses required by the "National Interim Primary Drinking Standards" (NIPDS) are not being carried out.

Wastewater

Wastewater from the plant is discharged to the Puerto Rico Aqueductos and Sewer Authority System (PRASA). There are no limits presently imposed on flow or watewater constituency, and no permits or pretreatment facilities are required.

Solid Wastes

This plant generates and stores nonhazardous and hazardous wastes. Hazardous waste materials are covered under RCRA Permit No. PRD 000706424 and are transported to an approved site and disposed of by a licensed contractor. Permit copy is in Corporate Environmental Services file.

Procedures and plans currently required by RCRA are being followed. These include:

- storage of wastes in approved containers,
- shipment of wastes offsite by EPA-licensed haulers under an approved manifest.
- maintenance of adequate records, waste analysis plans, training programs.

Air Pollution Control

A single operating permit application covering different emission sources was filed on March 18, 1981, with the P.R. Environmental Quality Board (EQB) instead of the usual multiple permit application filing system in order to simplify paperwork and other permitting procedures. Currently, EQB has not responded to this application.

The amended version of the "P.R. Regulation for the Control of Air Pollution" requires all sources of air pollution to write an Air Pollution Emergency Plan and Emergency Response Plan for sources which may release, leak or emit toxic or hazardous substances. This plant does not have either plan on file.

The survey file includes copies of applicable air pollution control plans and procedures.

Spill Prevention Control

Current spill prevention control and countermeasures plan was prepared in June 1976. A copy of this plan in in Corporate Environmental Services file.

Comments

Environmental procedures are documented in a professional manner, and operations are carried out in an environmentally sound way. The environmental management at this site reflects an awareness of the need for an environmentally responsible image.

Recommendations

Corporate Environmental Services recommends that Carolina SK&F Lab Co. management:

1. follow up approval of permit to operate air emission sources filed with EQB;

- 2. prepare a standby air pollution control emergency plan as required by the June 1980 Puerto Rico Regulation for the Control of Air Pollution;
- 3. prepare an emergency response plan as stipulated in Rule 107(c) of the June 1980 Puerto Rico Regulation for the Control of Air Pollution;
- 4. write operating procedures for dust collectors for access by operators and maintenance personnel.

RDA/ctp

SKOF LAD CO.

P.O. Box 3930, Carolina, Puerto Rico 00630

November 14, 1980

Mr. Harry Ruisi Permits Administration Branch U.S. Environmental Protection Agency 26 Federal Plaza New York, New York 10007

Dear Mr. Ruisi:

Herewith Interim Status RCRA Permits Application No. PRD 000706424 covering hazardous waste activities of SK&F Lab Co., Carolina, Puerto Rico.

Very truly yours,

SKEF LAB CO.

Carlos A. Acevedo

Manager

Safety and Environmental

Engineering

Enclosure

CAA/cav

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revised application. It this is your	
	te) 2.NEW FACILITY (Complete item below.) FOR NEW FACILITIES.
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8 7 0 0 1 0 2 (use the boxes to the left) 15 73 74 75 75 77 78 B. REVISED APPLICATION (place an "X" below and complete Item I above	2. FACILITY HAS A RCRA PERMIT
B. REVISED APPLICATION (PIECE III) 1. FACILITY HAS INTERIM STATUS	72 PAGETT
THE PROCESSES - CODES AND DESIGN CAPACITIES	he word at the facility. Ten lines are provided for
- process cope - Fater the code from the list of process codes below that b	est describes each process to be used at the facility. Ten lines are provided as the facility of codes below, then it is not included in the list of codes below, then it is form (Item III-C).
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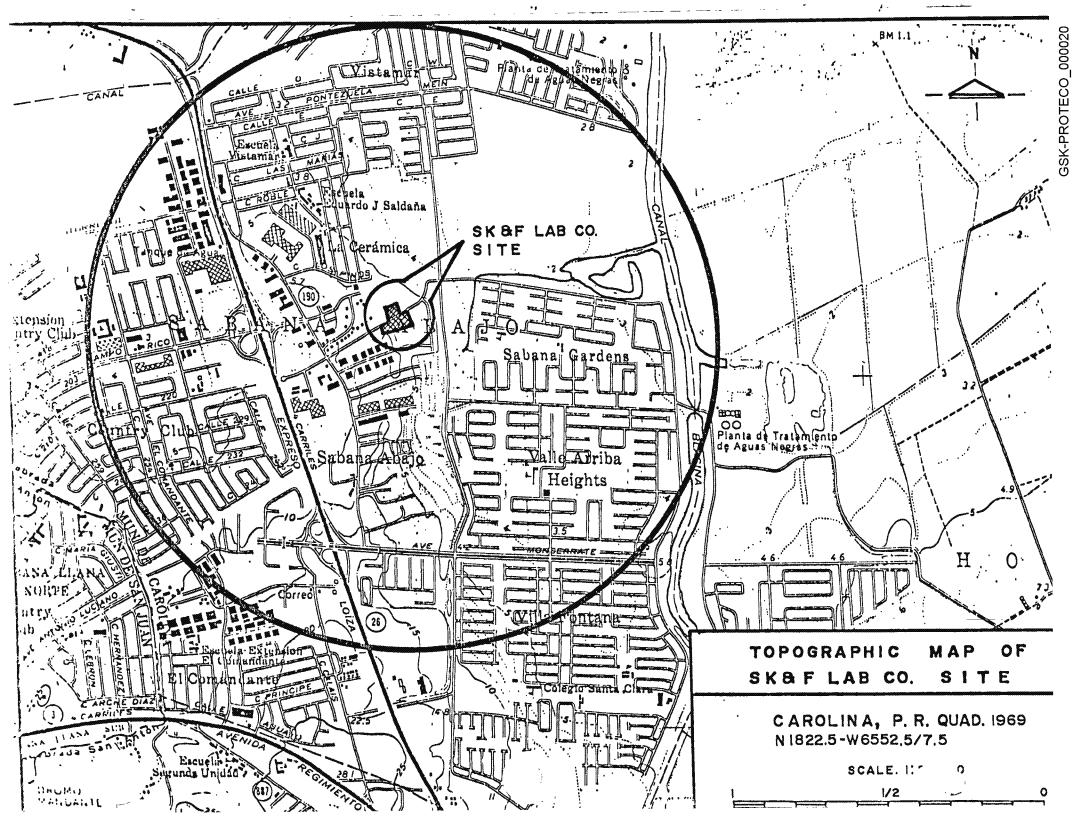
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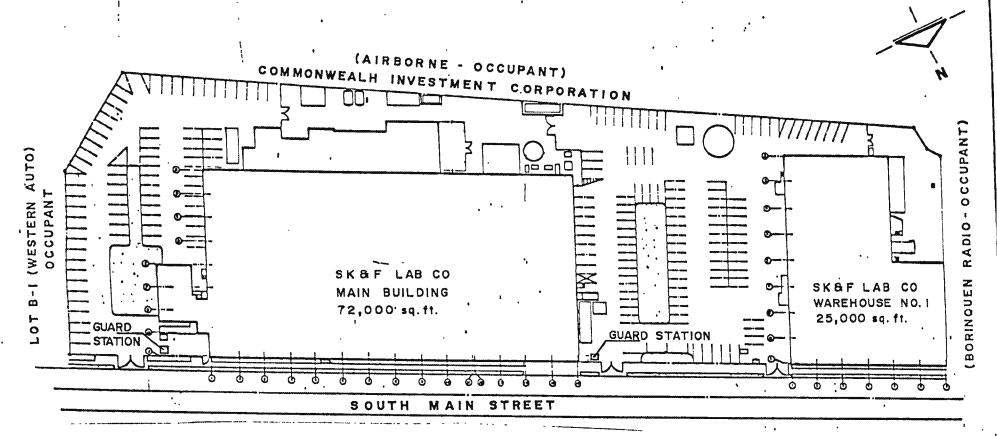
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All existing facilities must include photographs (aerial or ground—level) that clearly defined by the standard or disposal areas (see instructions for more tand disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more tandard or disposal areas).	e ucu			16 V 18		
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A. FIRST	5 (specify) MED	ICAL CHEMICALS
2, 8, 3, 4 PHARMACEUTICAL PREPARATION	15 16 • 18	D. FOURTH
C. THIRD	c (specify)	
	7	
III, OPERATOR INFORMATION		B. is the name listed in
A, NAME		item VIII-A also the owner?
SK&F LAB C O	<u>, , , , , , , , , , , , , , , , , , , </u>	YES NO
16	" hor if "Other" specify.	D. PHONE (area code & no.)
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P = PRIVATE E, STREET OR P.O. BOX		
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F. CITY OR TOWN	G.STATE H. ZIP CODE	IX. INDIAN LAND Is the facility located on Indian lands?
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B. UIC (Underground Injection of Plates)	I (spec	P.R. ENVIRONMENTAL QUALITY
N / A 9 1, 2, 7, 9, 0		ARD-AIR EMISSION SOURCE
C. RCRA (Hazardous Wastes)	R (specify)	e(fy)
P,R,D,O,O,O,7,O,6,4,2,4, 9	<u> </u>	
7		The man must show
Attach to this application a topographic map of the area extending the outline of the facility, the location of each of its existing and treatment, storage, or disposal facilities, and each well where it injurates bodies in the map area. See instructions for precise requirement	ects fluids underground. Inclu	structures, each of its hazardous waste de all springs, rivers and other surface
XII. NATURE OF BUSINESS (provide a brief description)		
- Formulation of Pharmaceuticals in Injeectables and syrup.	therapeutic dosage f	orm such as Tablets,
	-1 Products	
- Packaging of Finished Pharmaceutic		
- Manufacturing of bulk, unompounded	l medicinal chemical.	
		•
I certify under penalty of law that I have personally examined and attachments and that, based on my inquiry of those persons imapplication, I believe that the information is true, accurate and complication, I believe that the acceptability of fine and imprisonment	am familiar with the informat mediately responsible for obta mplete. I am aware that then	tion submitted in this application and all aining the information contained in the e are significant penalties for submitting
fal- information, including the possibility of this differential	* * * *	C. DATE SIGNED
A. & OFFICIAL TITLE (type or print) B. SIGNA	IUKE	
(sé M. García		
Vice-President Gen. Serv. & Eng. COMMENTS FOR OFFICIAL USE ONLY		
C		
15 16 PA Form 3510-1 (6-80) REVERSE		

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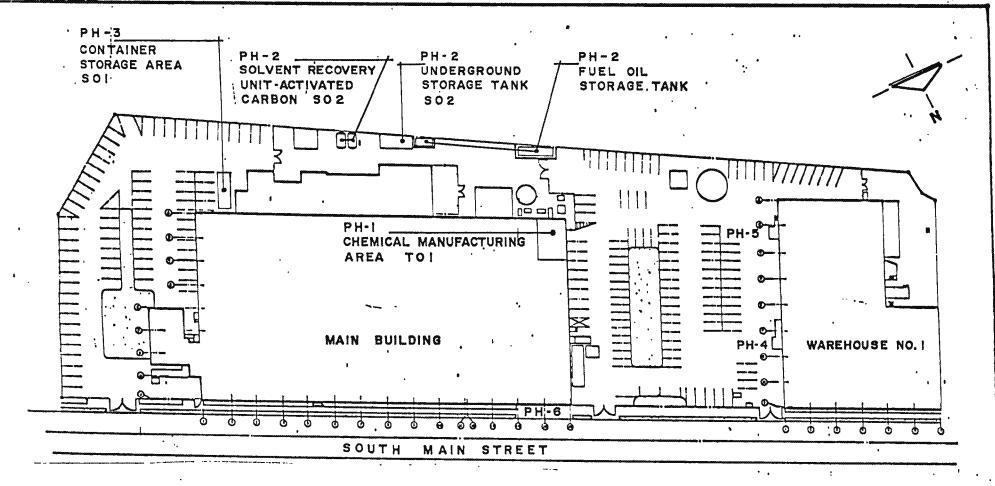




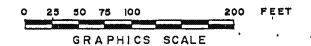


FACILITY BOUNDARIES

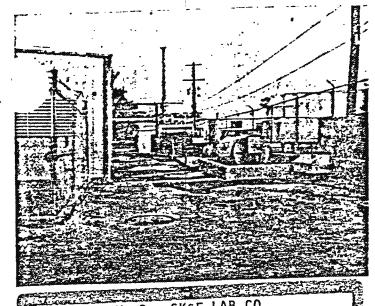
SK&F LAB CO CAROLINA, P.R.



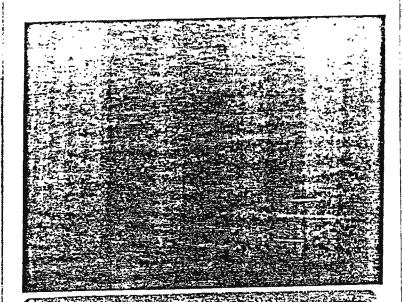
PH-I - PHOTO REFERENCE
SEE EXHIBIT FORM 3 - XXI



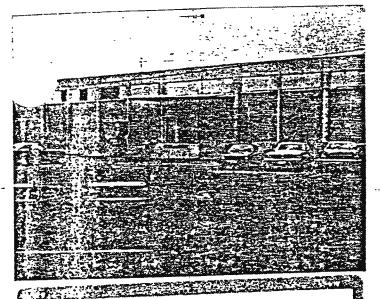
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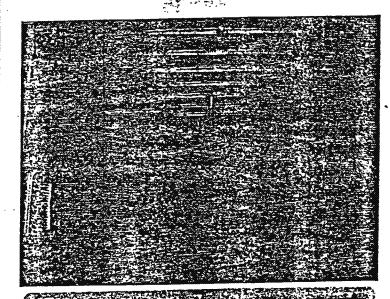
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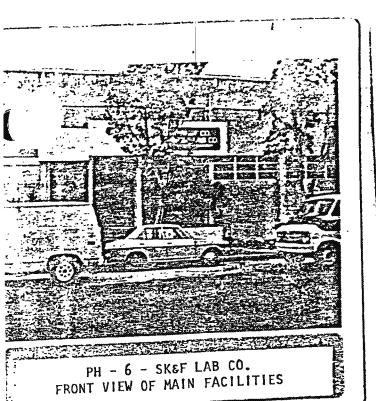
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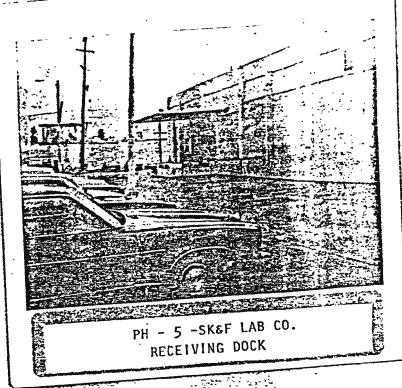


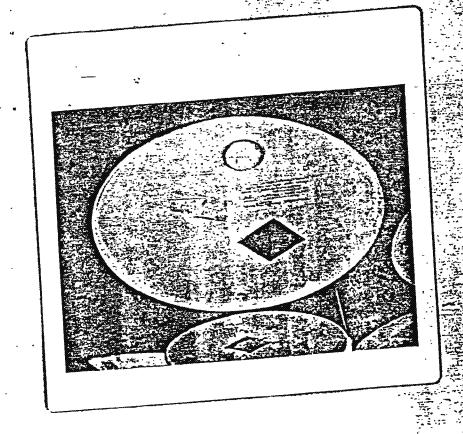
PH - 4 - SK&F LAB CO. FINISHED GOOD SHIPPING DOCK



PH - 3 -SK&F LAB CO.
CONTAINER STORAGE TRAILER
SO 1







SK&F LAB CO.

P.O. Box 3930, Carolina, Puerto Rico 00630

March 18, 1981

Mr. Juan Merced
Environmental Quality Board
P. O. Box 11488
Santurce, Puerto Rico 00910

Dear Mr. Merced:

Re: SK&F Lab. Co. - Carolina, Puerto Rico Package of Emission Sources Operation Permit Application

Herewith we are forwarding duly signed and notarized "Application for Approval for the Operation of Emission Sources in Puerto Rico" for all emission sources at our Carolina Facilities.

Please make all necessary arrangements to place our permits applications into the proper schedule.

In case you may have any doubt, do not hesitate to contact me.

Very truly yours,

SK&F LAB. CO.

Carlos A. Acevedo, Manager

Safety & Environmental Engineering

CAC/sfr

Enclosures



COMMONWEALTH OF PUERTO RICO / OFFICE OF THE GOVERNOR



FEE FORM

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. <u>Ca</u>	Carlos A. Acevedo							
En	vironmental Engineer	ing Manager.						
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P.	0. Box 3930							
Ca	rolina, P.R. 00630)						
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Environmental. Quality Board

APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

OPERATION OF EMISSION SOURCES IN PUERTO RICC

W W 81 F7 F7	PART I - GENERAL INFORMATION
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	Original XX Revision No. (Check one) Date
Ļ	j Lumand
1.	A. Name of project or emission source: Smith Kline and French Lab Co. (Carolina)
	A. Name of project or emission source.
	B. Location: Ceramica Annex, Carolina, Puerto Rico
	C. Authorized representative for permit application Smith Kline and French Lab Co.
	coordination and correspondence: Organization
	Safety & Environmental Francisco Aceyedo Francesing Manager 768-1570
	Engr. Carlos Acevedo Engineering Manager 768-15/0 Name of Official Tittle Tel No
	3930 Carolina <u>00630</u>
	D. Postal address: 3930 Carrie Municipality ZIP Code
	Durage of application: Construction XX Operation (Checkne)
2.	surpose of appropriate the surpose of appropriat
3.	Nature of Pharmacoutical Mfg at site
	OUNTHESS.
5.	Annual production (any convenient unit) 7. If intermittent operation, frequency
6.	Itinerary of normal operations.
	24 hrs./day 5 days/wk. 12 mos./yr.
0	the she following documents:
٥.	A Location map of plant site (projected or existing) indicating neighboring fields and prominent points
	^* G+**IP+11T+8.
	to as all socilities (projected or existing) indicating clearly all emission sources.
	C. Plans and specification of the emission source and its control measures or equipment.
	C. Plans and specification of the emission source and intended to be used or owned by
	D. Information about any air sampling or monitoring equipment used, intended to be used or owned by applicant, including type, trade mark, method, operation schedule, etc
	List all approvals or denials granted by Federal. State or Local agencies for any structure, construction,
9.	List all approvals or denials granted by rederat, other permit for use or requested number, and sanitary permit
	Identification No. Date
	Type of Permit Issuing Agency
	prior to September 16, 1971'
10.	Did facility exist, or was it lawfully under construction prior to September 16, 1971,
	Yes XX No (Check one)
502 500 FET TO	CERTIFICATION
	and acceptation described herein. I certify
	Application is hereby made for a permit or permits to authorize the activities and accurate. that, to the best of my knowledge and belief, such information is true, complete and accurate.
	1 Tele > College College
	Signature of applicant
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	AFFIDAVIT
	Affidavit No 9345
	Sworn and suscribed before me by Carlos Acevedo responsible 'fficia.
	of S.K.F. Lab. Co. of legal age, civil status married
George Control of the	Bayamon, Puerto Rico
•	
1	In Carolina, Puerto Rico, the 27th, day of March
Na displaying	halbert all
	Notary Public
	DOR TOR TORS ONLY
	POR EQB USE ONLY Application Number
	Permit issued on Expires on COV DECTION 00007

COMMONWEALTH OF PUERTO RICO / OFFICE OF THE GOVERNOR APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

OPERATION OF EMISSION SOURCES IN PUERTO RICO

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5.	_Bagho	of dischar	ve of a	emission	8.2	8000		cu	. ft./m	***************************************	***************************************	-goonggoonacoonny <u>is</u>		
			_		nated - 1	Paced or	ma	— iteria	ıls bal	lance	(esti	mated)		
6.	Emissio		ctual	ESCI								(time/ur		imel
		ype of Poll	<u>utant</u>				rt./unit s / hr			<u> </u>		hrs./		Luic
	Drug	Powder	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7 KIIO	3 / 111	•	www.comen	<u></u>		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	***************************************				<u> </u>									
		process flo		ram (blo	ck type)	showin	g point	s, amo	unts an	d type	s of em	issions	•	
1.	Combust	ion equipme	ent: _	with the same of t			······································			BTU/hr		or	Horse	power
••				•	Туре			-						•
2.	Fuel:		Ty	<u>pe</u>			Gals.	/hr.	or <u>L</u>	bs./hr	· · <u>*</u>	<u>Sulfur</u>		
						•			glenna					
	ى <u>ت</u>		galance de la Constantina de la Consta	and the second s		\$ 0w00400000	(************************************				neiri experiment			
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3.	Control		Eff:			4.	•	<u>ht</u>	Exhau	1	Тетр.	- V		: , ft/
3.			Eff:	iciency			•		Exhau	in.	Temp.	_er		ft/ sec. ft/
3.			Eff:	iciency	-	4.	•	<u>ht</u>	Exhau	1	Temp.	- V		ft/ sec.
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٠.	Ty	pe from incine	Eff: % 1	or waste	e dispos		•	<u>ht</u> _ ft.	Exhau	in.	Temp.	_er		ft/ sec. ft/
٠.	Ty	pe	Eff: % 1	or waste	<u> </u>	<u>el</u>	Heigh	ft.	Exhat Diar	in.	Temp.	_er		ft/sec. ft/sec.
Em)	Ty issions:	pe from incine	Eff: % 1	or waste		<u>el</u>	Heigh	ft.	Exhau	in.	Temp.	_er		ft/sec. ft/sec. lbs/day lbs/
<u>Emi</u>	Ty issions:	from incine for dispos	Eff: 2.1	or waste	<u> </u>	<u>el</u>	Heigh	ft.	Exhau Diar	in.	Temp.	_er	Veloc.	ft/sec. ft/sec. lbs/day
<u>Em</u> : 1.	issions: Method	from incine for dispos	Eff: 2.1	or waste		<u>el</u>	Heigh	ft. ft.	Exhau Diar	in.	Temp.	er er	Veloc.	ft/sec. ft/sec. lbs/day lbs/
<u>Em</u> : 1.	issions: Method Wastes: Incine	from incine for dispos	eration al of v	or waste	<u> </u>	al .	Heigh	ft.	Exhau Diar Quantit	in.	Temp.	tr tr Capaci	Veloc.	ft/sec. ft/sec. lbs/ day lbs/day ft/sec.
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COMMONWEALTH OF PUERTO RICO / OFFICE OF THE GUVERNOR

APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

OPERATION OF EMISSION SOURCES IN PUERTO RICO

	<i>J</i> ua	lity Board ·	29 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PART II		PROCESS A			DESCRIPT	LLON	·2a ••••••••	55 CC 5C 5G 5C 5C 5C 5C 5C 5C 5C
1	. In	ndustrial Emissi	ons						•	•		
	-	. Describe proc		an aret la	- 4hat au	mita atmos	nheric /	cont or	ninonts.			; †
	1.	Skerman T	ablet	Coating	i that e	mressed	'Tagam	et'	powder	is coated	l with ed	ible
		hard sett								lost, abo		
		6 kîlos/d						<u> </u>	***************************************		***************************************	1
	•	Terresidanti in terresidanti del como de la			. T.			<u></u>		2508	Kilo	os/day
	۷.	Raw material t	useu or	processe	a: _la	Type	***		annandililiph (i),inim	Quantity		Unit/Unit Time
	3.	Control equipm	ment fo	r emissio	ns:			4.	Chimney	s or stacks	•	
		Туре		Efficiency % by wt.					Height	Exhaust Diam.	Exhaust Temp.	Exhaust Veloc.
		Torit #3		98.5			•		<u>50</u> ft.	12X12in	. <u>75</u> ef	43.3 se
				and the second s				-	ft .	in.		ft,
	5.	Volume of disc	harge c	of emissic	ons:	2600)	_ cu.	. ft./min	1.		
	6.	Emissions:	Actua	al Est	timated ·	- Based or	1m	ater	ial bal	ance ~	and the state of t	soukkeessaadoik-majo-ripsop@m
		Type of P	ollutar	<u>ıt</u>	<u>Q</u> 1	uantity (w	t./unit	time)	<u>)</u>	Control	(time/unit	time)
		Drug Powde	<u>:r</u>		**************************************	0.00375	kilos	/day		24	hrs/day	geningenous construction (Construction)
		**************************************			-groupsgan-accounter-tot			······································			*	energy (specialists (sp. 48) entertials (90)
II.		Attach process			lock typ	e) showin	g points	, amo	unts and	types of e	missions.	
11.	tereser-relit			•							or	www.communication.com
•	1.	Combustion equi	1pment:	•	Тур) E			В	ru/hr.	Hor	sepower
	2.	Fuel:										
				Type		-	Gals./	hr.	or Lbs	s./hr. Z	Sulfur	
				Туре		-	Gals./	hr.	or Lbs	s./hr <u>Z</u>	Sulfur	
				Туре	-	- -	Gals./	hr.	or <u>Lbs</u>	s./hr <u>Z</u>	Sulfur	
				Туре			Gals./	hr.	or <u>Ibs</u>	s./hr <u>Z</u>	Sulfur	
	3.	Control equipme	ent for				Gals./	инартаралар илапаралара		s./hr Z	Sulfur ,	
	3.		1	emission Efficienc	у .	 	Chimney	s or 1	stacks:	t Exhaus	t Exhau	-
	3.		1	emission	у .			s or 1	stacks:	t Exhaus	t Exhau	
	3.	Control equipme	1	emission Efficienc	у .	4.	Chimney	s or 1	stacks:	t Exhaus	t Exhau	×.
	3.	Control equipme	1	emission Efficienc	у .	4.	Chimney	s or i	stacks:	t Exhaus	t Exhau Velo	ft/ sec.
	•	Control equipme		emission Efficienc % by wt.	y .		Chimney	s or i	stacks:	t Exhaus Temp.	Exhau Velc	ft/ sec. ft/
ı.	•	Control equipme		emission Efficienc % by wt.	y .		Chimney	s or i	stacks:	t Exhaus Temp.	Exhau Velc	ft/ sec. ft/
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ıı.	<u>Emi</u>	Control equipme Type ssions from inc	inerati	emission Efficienc % by wt.	y .		Chimney	s or i	stacks:	t Exhaus Temp. in.	Exhau Velc	ft/ _sec. _ft/ _sec.
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ı.	<u>Emi</u> 1. 2.	Type Type ssions from inc Method for dis Wastes: Type	inerati	emission Efficienc % by wt.	ste disp	osal_	Chimney:	s or s	Exhaus Diam. Quantity Re Mark	t Exhaus Temp. in.	er Exhau Velc	ft/ sec. ft/ sec. ft/ aec.
ı.	<u>Emi</u> 1. 2.	Type Type ssions from inc Method for dis Wastes: Type	inerati	emission Efficiency % by wt.	y .	osal_	Chimney	s or i	stacks: Exhaus Diam. Quantity Le Mark	t Exhaus Temp. in.	er Exhau Velc	ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ dsy ft/ sec.
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1.	Emi 1. 2. 3.	Type Type ssions from inc. Method for dis Wastes: Type Incinerator: Chimney or sta	cinerati	emissions Efficiency 7 by wt. ion or was of wastes: Type Height	ste dispo	osal	Chimney	s or i	Exhaus Diam. Quantity Exh Exh	t Exhaus Temp. in. in. Temp.	Capacity Exh. Velc	ft/_sec. ft/_sec. ft/_sec. lbs/_day lbs/_dsy ft/_sec. Vel.
	Emi 1. 2. 3. 4.	Control equipment Type Type ssions from incomethod for distriction wastes: Type Incinerator: Chimney or state Auxiliary fuel Control equipment	cinerati	emissions Efficiency 7 by wt. ion or was of wastes: Type Height	ste disp	exh.	Chimneys Height	s or st. ft. ft. Trad in.	Exhaus Diam. Quantity e Mark Exh	t Exhaus Temp. in. in. or Ibs	Capacity 2F Exh. V	ft/ _sec. ft/ _sec. ft/ _sec. lbs/ _day lbs/ _dsy ft/ _sec. 7 Sulfur by wt.
٧.	Emi 1. 2. 3. 4. 5.	Type Type ssions from inc Method for dis Wastes: Type Incinerator: Chimney or sta Auxiliary fuel Control equipm	ineration in the second	emissions Efficiency 7 by wt. Ion or was of wastes: Type Height Type or inform	Type nation sh	Exh.	Chimneys Height	ft. Trad in:	Exhaus Diam. Quantity Le Mark Exh Exh	in	Capacity 2F Exh. V	ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ day sec. 7. Sulfur by wt.
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V. ▼. I C and Con	Emi 1. 2. 3. 4. 5. 6. Com ertii meas	Type Type ssions from inc Method for dis Wastes: Type Incinerator: Chimney or sta Auxiliary fuel Control equipm pliance: Attact trol Equipment:	cineration of the Putter of th	emissions Efficiency Z by wt. Type Height Type CERTI d and autl of the emissions	ft. Type action sh of any control horized ission a Environ	Exh. Exh. control equator adequator adequator adequator adequator adequator adequator and a control equator adequator adequa	Chimneys Height The ight Chimneys Height Chimneys Height Chimneys Height Chimneys	ft. ft. ft. ft. Gals ons w insta	Quantity Quantity Exh Exh Lyhr. Efficient and that,	in. in. in. in. in. ficiency exceed the exist uerto Rico; provisions to the best	Capacity 2F Exh. V 2. Ar. Capacity 3. Ar. Capacity 4. Ar. Capacity 2. Ar. Capacity 3. Ar. Capacity 4. Ar. Capacity 4. Ar. Capacity 4. Ar. Capacity 5. Ar. Capacity 5. Ar. Capacity 6. Ar. Capacity 6. Ar. Capacity 6. Ar. Capacity 7. Capacity 7. Capacity 8. Ar. Capacity 9. Capacity 9. Capacity 1. Ca	ft/ _sec. ft/ _sec. ft/ _sec. lbs/ day lbs/ dsy ft/ _sec. Vel. Z Sulfur by wt. limits. quipment Pollution ledge and
I C and Con	Emi 1. 2. 3. 4. 5. 6. Com ertii meas trol ief,	Type Type Seions from inc Method for dis Wastes: Type Incinerator: Chimney or sta Auxiliary fuel Control equipm pliance: Attack trol Equipment:	cineration of the Putter of th	emissions Efficiency Z by wt. Type Height Type CERTI d and autlof the emierto Rico is true,	ft. Type action shorized ission a Environ complet	Exh. Exh. control equator adequator adequator adequator adequator adequator adequator and a control equator adequator adequa	Chimneys Height The ight The ight Chimneys Height Chimneys Height Chimneys Height Chimneys Height Height	ft. ft. ft. ft. Gals ons w insta	Quantity Quantity Exh Exh Lyhr. Efficient and that,	in. in. in. in. in. ficiency exceed the exact the emissions	Capacity 2F Exh. Velc ap 2F Exh. Velc consource. that the ecof the Air of my know C. Color	ft/ _sec. ft/ _sec. ft/ _sec. lbs/ day lbs/ dsy ft/ _sec. Vel. Z Sulfur by wt. limits. quipment Pollution ledge and

R MAILING ADDRESS, P.O. BOX SANTURCE, PURRTO RICO DO 11488 APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

OPERATION OF EMISSION SOURCES IN PUERTO RICO

为	/ Environmental				, , , , , , , , , , , , , , , , , , ,			C-18 Cs
_ 1000	iality Board	· PART II - PLA	ANT PROCESS AND B	MISSIONS D	ESCRIPTION	VC-2	医乳球球球 计分子 医多叶皮	e==
1.	Industrial Emissions	(2004, 000, 100, 100, 100, 100, 100, 100,						
	1. Describe process	on converted that	- omite stmosnhor	ic contami	nants.		1	
	During storage,	handling and	processing th	e powder	mixtures	are lost	in small	
amoun	ts. The powder s	cattered aroun	d the process	ing mach	ines, the	employees	clothes and	d
the f	loor. A vacuum c	leaner system	îs available	at those	places to	collect t	the scatter	ed
dust.						<u> </u>	Management of the State of the	
:	2. Raw material used	or processed:	Туре	en ner op de en	Qua	ntity	Unit/Uni Time	t
						. •	a ame	
;	3. Control equipment		•	4. (himneys or	stacks: naust Exha	ust Exhaust	
	Туре	Efficiency Z by wt.		<u>F</u>		am. Tem		- ft
	Bag Filter	98%	ſ		27 _{ft} .	6 <u>in. 104</u>	1 2F 8.5	
	#2	4000-000-000-000-000-000-000-000-000-00		Quan-via	ft.	in.	2.p	ft _se
		#BOOTS SANT CONTRACTOR - NATIONAL GOOGLESSES	000		nuntuuminuutittiin	, ·	With a contract of the contrac	•
S	. Volume of discharg	e of emissions:	800	nnonno6527- ²⁵ 510 ³	ft./min.			
6	. Emissions: Ac	tual Estimate	ed - Based on	mater	ial balan	ce (adjuste	<u>:d)</u>	
	Type of Pollu	itant	Quantity (wt./u	nit time)	Du	ration (time/	unit time)	
	Drug powder		0.002 ki	los/hr.		24 hrs.	./day	
		Market Strategy and Associated						
	#	rightygeness construction of the construction				**************************************		-
7	. Attach process flo	w diagram (block	type) showing po	ints, amou	nts and typ	es of emissio	ns.	
II. <u>E</u>	missions from combust	ion						
1	. Combustion equipmen	nt:	Туре		BTU/h:	or	Horsepower	-
*4	-		,		or Lbs./h	. Z Sulfu	r	
2	. Fuel:	Туре	<u>Ga.</u>	ls./hr.	12 20017111		89	
•				and derivative and department		paraditri announcement month on quadrature announcement month on quadrature announcement announc		
					digendaries and control of the contr	and the state of t	•	
	***************************************					`		
3	. Control equipment	for emissions:	4. Chir	meys or st	acks: Exhaust	Exhaust	Exhaust '	
	Туре	Efficiency - % by wt.	<u>H</u> e	eight	Diam.	Temp.	Veloc.	
	- Andrews	aggregar-metalos/flocos-canamidas/2009		£2.	in	e.F	ft/ sec.	
		and an analysis of the second control of the		ft.	,	-	ft/	
	***************************************	50 Career Control Cont	_	ft.	11	· EF	sec.	
		or mosts di	Isnosal					
u. I	Emissions from incine	ration of waste di						
1	L. Method for dispose	il of wastes:					lbs/	
2	2. Wastes: Type	*		, Q	uantity		day lbs/	
3	. Incinerator:			Trade	Mark	Capa	day city	
		Туре		•	I ALL M	- 2 y	ft/	
4	. Chimney or stack:	Height	ft. Exh. Diam	in.	Exh. Te		Exh. Vel.	
			•			OF		
		λbe	***************************************	Gals.	/hr.	Lbs./hr.	2 Sulfur	
		-			Effici	ency .	% by wt.	
		Type	showing that em	issions wil			ished limits.	
		tch of an	y control equipm	ent install	lation at t	he emission s	Ource.	; go bore
		NCS 25.27 25.28 NO. 82	ION BY AN ENGINE			gg que livis aus eus des que-gen sité aus agu adi-des-	-	
		•			an in Poert	o Rico; that	the equipment	
		emission	ed to practices on are adequate an commental Quality	d comply w	ith the pro	visions of the	knowledge and	>¤ ₫
		tico Envi	ronmental Quality lete and accurate					
		Caı	·los A. Aceved	0		lo a.a		
			ame (Typed)	, (-	Signature ,,,		

APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

八						OP	ERATION O	of em	ISSION	SOURCE	S IN I	PUERTO RIC	0
头	או ומ	lity Roam		· PART II -	PLANT PRO	CESS ANI	EMISSIO	NS D	ESCRIPT	ION DI	DFP-1	€ 2	
I.		ndustrial Em			9 976 S.ETKO PK ISK ES 57	Silvensory for Jeneral Jen 9	6 Sec (2):225899971989 90: 62.1		or 200 Mile and 1000 American 200 S			3 Dec. 1645 St. 2 Style 505 St. 500 Fran St.	200 Sale 200
							oria con	e amd v	- 276				1
	l.	. Describe	process o	r operation t ower from b	nat emits PRWRΔ fai	acmosp: ils_t	his svsi	tem	enters	into	о оре	ration k	keep ing
		desired	pressur	e level on	our fire	e prote	ection s	spri	nkler	syste	 ≥m.		
			picaaui	C ICACI OII		- P			-			······································	00000000-100000-100-10000-100000000-1000
	2	Raw mater	al used	or processed:		<u></u>					<u> </u>		
	-					p e				Quanti	ty		Unit/Unit Time
	3.	Control eq	uipment :	for emissions	:		4	i. C	hiwneys	or st	acks:		
		_		Efficiency				117	od oht	Exhau Diam		Exhaust Temp.	Exhaust Veloc.
		<u>Type</u>		7 by wt.				<u>n</u>	<u>eight</u>	-	mgun=		ft
		disconnective recognition of the second seco		Make the strange of t				-	ft.		_in.	* P	se ft
				tamovičinama (markovice)					ft.		in.	tr	se
	5.	Volume of	discharge	of emission	3:		(cu.	ft./min.	•			
	6.	Emissions:	Act	ual Estin	nated - Bas	sed on _				······································		over Knit Star Piggerian varianten son en son e	aluuuuuuuuuuuu haaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa -
		Туре	of Pollut	ant	Quanti	ity (wt.	/unit tim	me)		Durat	ion (time/unit	time)
					-	7.00-0-00-0-1	tiering statement statement out of the statement of the s					······································	and the state of t
				•		nananananananan erreiter							
				diagram (blo	ck type) s	howing	points, a	amoun	ts and	types	or em	ssions.	
11.	turbus	ssions from		•	a Dinenl	Eima	Dump					or	119
	1.	Combustion	equipmen	: <u>Detroi</u>	Type	rite	rump		BT	U/hr.	<u> desta de la composición dela composición de la composición dela composición de la composición dela composición dela compo</u>		sepower
	2.	Fuel:		Туре		<u>(</u>	Gals./hr.	0	r <u>Lbs</u>	<u>./hr.</u>	. <u>7 s</u>	ulfur	
			Die	•	,		7				1.	.0	
				3C1		ana		•		AMERICAN STATE OF THE PARTY OF	avantopini00	emilitripassassastimite	
		<u> </u>		was a second of the second of				•	100,000			no-innonnoticododii)	
	3.	Control equ	doment fo	or emissions:		4. C	nimneys o	rst	acks:				
				Efficiency			-		Exhaust	-	khaust		
		Type		% by wt.			<u>Height</u>		Diam.		Cemp.		<u>c.</u> ft/
		Combus i on					25 f	t.	4	in.	ponnovivi di manuni (il	_ep	sec.
		Control	arranonnalingin (ingrissi)	Warning Commence of the Commen			fı	t.		in.		٤F	ft/ sec.
		Equipment		NAME AND POST OF THE PARTY OF T	-		-			_	7		
II.	Emi	issions from	incinera	tion or waste	disposal								•
				of wastes:			_						
	Ι	ternog for	arshoses	OI Wabter	Section Sectio		1		antity				lbs/ day
	2.	Wastes: T	уре	•				~.			RANGE STRANSPORTERS		lbs/
	3.	Incinerato	r:	Type			Tr	rade	Mark			Capacity	day
			_	-JF-	ft.		4	ln.			2	.y	ft/ sec.
	4.	Chimney or	stack:	Height		Exh. Di			Exh.	Temp.		Exh.	Vel.
	5.	Auxiliary	fu el:	7			Ga	118./	hr.	0		/hr.	% Sulfur
	6.	Control eq	uipment:	Тура				-		1 - 1 0		%	by wt.
		-	•	.Ty a or informat	pe	+ % = +	emissions	. víl		icienc xceed		tablished	limits.
IV.	Com	pliance: A	ttach dat	a or informat ach sketch of	100 BHOWLD	ol equi	nment ins	tall	ation a	t the	enissí	on source.	
V.	Con	trol Equipme	ent: Att							4 Marian 20, est su	geogeoot 986.6C 155	7 II 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	10. och 355 set 165 set 166 set 166 set 166 set
					CATION BY				a in Pi	erto R	tico: 1	that the e	quipment
I Ce	ertii mes	fy that I am	register	red and author	rized to pr sion are a	ractice! dequate	and comp	ly w	th the	provis	ions	of the Air	Pollution
Cant	- ~~	weenlations	! ለ የ ተ ክመ ነ	of the emiss Puerto Rico Es on is true, co	DATEORME DE	BY Angri	rea moment	and	that, t	O ENS	vest (
oci			.u.v.mat1		Carlos A			•	C	rla	2	L. Ree	vedo
-		959 cense Number	angang ang ang ang ang ang ang ang ang a		Name (Ty					And the second second second	nature	\$ 5 -6 t	
	2 Luz			o es les ant ser inc ser an ga ga ya so se se so s	and the second parties and the second the second		1 NO TO BE SEE ON THE SEE ON THE SEE	* = 60 = 2	9-200 000 000 top 000 004 005	. See 600 100 500 500 500 500		0 cox sur 305 tils 160 tils 50 tils 50 tils 50 til	

	80 (85 T	ty Board ·	errections	PLANT PROCES	S AM ETIO		DESCRIPI	ION CEG-	-	
I. j	Ind	ustrial Emissions								•
1	1.	Describe process	or operation th	nat emits at	mospheric c	ontan	inants.			
				- *					100 000 000 000 000 000 000 000 000 000	
		-							ONDERST - SERVICE CONTROL CONT	
· 2	2.	Raw material used	or processed:	Туре				Quantity		Unit/Unit Time
3	١.	Control equipment	for emissions:			4.	Chimneys	or stacks:	;	
		Туре	Efficiency % by wt.				Height	Exhaust Diam.	Exhaust Temp.	Exhaust Veloc.
		1,50						in.		ft. se
		40-yiga 119	gm:gramg-ngcol/namqum-gram-gl7ddad2g90o			-				ft,
				_		-				
5.		Volume of discharge								
6.	•	Emissions: Act		ited - Based				Duration		time)
		Type of Pollut	ant	Quantity	(wt./unit	<u>time</u>		Duracion	(CIME/ CHIL	<u>Clue</u>
	-							and the state of 		
		¬	derentemente de la constitución de	**************************************	ardrifochdocostorrogennessensitätättä.		ennestinggg/P terighood	ann ann an		
		Attach process flow		k type) show	wing points	, amoi	mts and	types of ex	nissions.	
		ions from combusti		Matar Can	arator			nor 4500	or gnr	1
1.	. (Combustion equipmen	e: Cummings	Type	erator	nand water the Marie Water to Secure the Secure to Secure the Secure to Secure the Secure to Secure the Secure to Secure to Secure the Secure to Secure the Secure to Secure to Secure the Secure to Secure the Secure to Secure the Secure to Secure to Secure the Secure to Secure the Secure to Secure the Secure to Secure the Secure to Secure to Secure the Secure the Secure to Secure the Secure th	BT	U/hr.	والبائلول والمست	sepower
2.	I	uel:	Туре		Gals./h	r.	or <u>Lbs</u>	./hr. 2	Sulfur	
		Diesel		•	42	post0000*	-		1.0_	
		ats					Q040040		,	
			- A		. Chimneys	o* 6	tacko:		•	
3.	C	control equipment for	or emissions: Efficiency		· Chimieys	OT 9	Exhaust	Exhaust		
		Type	% by wt.		Height		Diam.	T	Velo	c.
					Annual Annual Printers of the Control of the Contro		D.Lam.	Temp.		F+ /
	_		0.0000000000000000000000000000000000000			ft.	6	in. 950		ft/ _sec.
	_							in. 950		•
	_					ft.	6	in. <u>950</u>	_sF 212	_sec. ft/
En	nis	sions from incinera	ition or waste		25	ft.	6	in. <u>950</u>	_sF 212	_sec. ft/
		sions from inciners	l of wastes: _		25	ft.	6	in. 950	_sF 212	sec. ft/ sec.
			l of wastes: _		25	ft.	6	in. 950	_sF 212	sec. ft/ sec. lbs/ day lbs/
1.		Method for disposal	l of wastes: _		25	ft.	6	in. 950	_sF 212	lbs/ day lbs/ day
1.	. 1	Method for disposal	i of wastes:	ft		ft.	6 Quantity	in. 950	er 212	lbs/ day lbs/ day ft/ sec.
1. 2. 3.	. 1	Method for disposal Fastes: Type Incinerator: Chimney or stack:	i of wastes:	ft	25	ft. ft.	6 Quantity	in. 950	er 212	lbs/ day lbs/ day ft/ sec.
1. 2. 3.	. 1	Method for disposal Wastes: Type	i of wastes:	ft	25	ft. ft.	6 Quantity Exh.	in. 950 in. Temp.	Capacity Exh. V	lbs/day lbs/ day ft/sec. /el.
1. 2. 3.	. 1	Method for disposal Fastes: Type Incinerator: Chimney or stack:	Type Height	ft. Exh	25	ft. ft. Trade	Quantity Exh.	in. 950 in. Temp.	Capacity Exh. V	lbs/ _day lbs/ day ft/ sec.
1. 2. 3. 4.	omp)	Method for disposal Fastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment:	Type Height Type Type Type	ft. Exh e on showing t	25	ft. ft. Trade in. Gals.	6 Quantity Exh.	in. 950 in. Temp. or lbs	Capacity Exh. V	lbs/ _day lbs/ day ft/ sec. 7 Sulfur by wt. limits.
1. 2. 3. 4. 5.	omp)	Method for disposal Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel:	Type Height Type , Type a or information should be factor of a	ft. Exh	25 Diam.	ft. ft. Trade in. Gals.	6 Quantity Exh. /hr. Eff: 11 not exhaustion at	in. 950 in. Temp. or lbs	Capacity Exh. V	lbs/ _day lbs/ day ft/ sec. 7 Sulfur by wt. limits.
1. 2. 3. 4. 5. 6.	omp)	Method for disposal Fastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: Liance: Attach dat	Type Height Typa Typa CERTIFIC	ft. Exh	25 hat emission equipment in ENGINEER OR	ft. ft. Trade in. Gals.	Exh. Exh. In not exhibit a significant at the sig	Temp. or Ibs	Capacity Exh. V	lbs/ sec. lbs/ day lbs/ day ft/ sec. Z Sulfur by wt. limits.
1. 2. 3. 4. 5. 6. Co	ify	Method for disposal Fastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: Liance: Attach dat Tol Equipment: Att	Type Height Type A or informatic ach sketch of ach sket	ft. Exh e on showing t any control ATION BY AN	25 hat emissic equipment in ENGINEER OR tices my pro-	ft. ft. Trade in. Gals.	Efficient ion in Purch the	Temp. or Ibs iciency sceed the extreme extra Rico; provisions	Capacity Exh. V	lbs/ sec. lbs/ day lbs/ day ft/ sec. Z Sulfur by wt. limits.
1. 2. 3. 4. 5. Co Co Co Control	ont:	Method for disposal Fastes: Type	Type Height Typa Typa Typa CERTIFIC/ red and authoril of the emissi	e on showing t any control ATION BY AN zed to pract on are adequirencemental (that emission equipment in ENGINEER OR tices my properties and conquality Board	ft. ft. Trade in. Gals.	Efficient at lation at lation in Puwith the ithat, t	Temp. Temp. or Ibs iciency acced the extensions erto Rico; provisions o the best	Capacity Exh. V Exh. V that the ecof the Air of my knowle	lbs/ sec. lbs/ day lbs/ day ft/ sec. Z Sulfur by wt. limits. quipment Pollution ledge and
1. 2. 3. 4. 5. Co Certind menontrol elief,	ont:	Method for disposal Fastes: Type	Type Height Typa Typa Typa CERTIFICA red and authoril of the emissil Puerto Rico Envon is true, com	e on showing t any control ATION BY AN zed to pract on are adequirencemental (chat emission equipment in ENGINEER OR tices my propose and conquality Board courate.	ft. ft. Trade in. Gals.	Efficient at lation at lation in Puwith the ithat, t	Temp. or Ibs iciency sceed the extreme extra Rico; provisions	Capacity Exh. V Exh. V that the ecof the Air of my knowle	lbs/ sec. lbs/ day lbs/ day ft/ sec. Z Sulfur by wt. limits. quipment Pollution ledge and

	. ianantal				OFERRITOR OF			III I UDICEO	11200	
Qual	vironmental ity Board	· PART T	T - PIANT-1	PROCESS	AND EMISSIONS	DESCRIPT	ION	OEG-1	••	
- 14 TO THE COLUMN CO.	Ties, see aservae des recryschiege and toother does and calculate film and		. 1882 P.M. 1884 1885 1885 1885 1885 1885 1885 1885	<u> </u>		O COMPANY NO DE DES DOS DES EST EST	ESÇIND BOLLINGO SEL SEI SE	r jier aleradie schricht saft für der des ei		8 for \$10 per 800 cm t
I. In	dustrial Emission	8							1	
1.	Describe proces								į	
	When electri	c power fr	om PRWRA	fails,	this syte	m enters	into	operatio	n '	onnerskilster (1975)
	keeping vita	l sections	of the	plant p	owered.					
	ennis		POOROOOO Opelo GOOOO taalay		*					
				, , , , , , , , , , , , , , , , , , , 					gatos concessos (p p	
2.	Raw material use	ed or process	sed:	Туре			Quantity	7		t/Unit
				u -	•				7	Time
3.	Control equipmen	t for emissi	ions:		4.	Chimneys	or stac	ks:		
		Efficier	•			77 - 1 - LA	Exhaust Diam.		_	naust
	Туре	7 by wt	, e			<u> Height</u>	**************************************	-		
	&	100000-1000-10000000000000000000000000	***************************************		-	ft.		in	_*F	
					,	ft .		in	_ *F	
•		-	<u>-</u>							
5.	Volume of discha	rge of emiss	ions:	ngganggathannanhhannan-Wall-A	L S	ı. ft./min				
6.	Emissions:	Actual E	stimated -	Based or	1				**************************************	
	Type of Pol	lutant	Qua	antity (v	rt./unit time	2)	Duration	on (time/u	nit tim	<u>e)</u>
	emails all agramatica - Managemy reconnection	and the second s		-	•					
				<u>esteup</u> noonnnnnnnnnnnnnpopopnnoon	00000000000000000000000000000000000000					***************************************
	***************************************		annanananandi vivisi ya	wannandiw (Titler Sandawannahan				granging and the same of the s		
_								Fominaion		
	Attach process f		(block type	e) showin	g points, am	ounts and	types of	emission	5 •	
Emis	sions from combus	QN	AN Electinerating	ric				or		160
1.	Combustion equipment	ent:	Type		tunnerunnetellississe guusse joi kennen teritus ja siid	BT	U/hr.	myrmy, accessoratelytics, an	Horsepo	wer
						or the	./hr.	% Sulfur		
2.	Fuel:	<u>Type</u>			Gals./hr.	or Lbs	./	designation and an arrangement		
	Di	esel			7		www.compressor.compressor.com	1.0		
								_		
	electron annual de la companya de la		***************************************		popositivi vijedjulara emmenici (1226)	(MANAGEMENT)	oue-constitution and a second	•		
3. (Control equipment	for emissic	ns:	4.	Chimneys or	stacks:				
		Efficien	ıcy -		•	Exhaust			xhaust:	•
	Туре	% by wt	. 9		<u>Height</u>	Diam.	_ le	mp	Veloc.	t/
	Combustion				25 ft.	4	in	& F		ec.
	Control		pocoulis		Control of the Contro		in.	e.F	ft	t/ ec.
_	Equipment	way and the same of the same o			ft.	Constitution of the Consti			annanna gargagaga	
	, -		meto dienos	?					-	
Emis	ssions from incin	eration of w	asce dispos) CL &						
1.	Method for dispo	sal of waste	s:	anganiannannahan Tarab	V-22			and the state of t		lbs/
2.	Wastes: Type					Quantity	***************************************		,	day
		•			•		_			lbs/ day
3.	Incinerator:	Туре			Tra	de Hark		Capaci	ity	ft/
ı.	Chimon on stack		ft.		in			= y		_sec.
4.	Chimney or stack	Height	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	Exh.	Diam.	Exh.	Temp.	Ex	ch. Vel.	
5.	Auxiliary fuel:						or	Abo and the same of the same o		3.6
J.	AUVITALY THEI.	Тур	2		Gal	s./hr.		Lbs./hr.		ulfur
6.	Control equipment	.			**************************************	- Fff	iciency		. % by	ut.
		_	Type		laslans :		-	e establis	hed lim	its.
Comp	liance: Attach	data or info	mation sho	wing tha	E emissions	-llation m	t the en	ission sou	rce.	
Cont	rol Equipment:	Attach sketch	n of any co	ntrol eq	uipment insti	ELISTION S	:2 2-30 00 00.03 00.00 [*************	1 237 105 105 105 105 105 105 105 105 105 105	x pr 40 20 to 10
		CERT	IFICATION :	by an en	GINEER OR A	CHEMIST	•			
Certify	y that I am regis	tered and au	thorized to	practio	es my profes	sion in Pu	erto Rio	o; that the	he equip Air Pol	ment lution
d meas	y that I am regis ures for the cont regulations of th	rol of the e	mission are	a adequat ental Ou	te and comply lity Board a	nd that, t	o the be	est of my l	knowledg	e and
ntrol :	regulations of th the above informs	tion is true	complete	and accu	rate.	-	•			
c69			Carlos A.				eles	Q. Re	ened	4
		and distributions and		(Typed)			Signa	ture	<u> </u>	
LXC	euse Nampez		THE RES LESS NO. 100,	- # 8	2 100 001 100 100 200 100 100 100 100 10	20. for gardy and 40 the gardin pa	H 1000 TOD TOD TOD TOD TOD TOD	A (2) 1507-150 (2) 150 (2) 150 (2) 150 (2)		######################################

当					CLEC VIII	EMISSIONS	DESCRIPT	ION CBB-	1. CBB-2	3
	uali	ty Board ·	PARI II	- KIVNI LV				no provincial su mai		
•	Tme	iustrial Emissi	ons							:
I.	gan					la anntor	·inonts			!
	1.	Describe proc	ess or operation	that emit	s atmosphe	eric contai	iliance.			,
		ACCUPATION OF THE PROPERTY OF					wooden was a dependent of the second			
					•				·····	
			- Landania de la companya de la comp					Matterson of the State of the S		
	2	Der moterial :	used or processe	4 •						
	<i>a.</i> •	Yes mureirer		-	Туре .			Quantity		Unit/Unit Time
								_		•
	3.	Control equip	ment for emission	ns:		4.	Chimneys	or stacks:		Exhaust
		_	Efficiency	•			Height	Exhaust Diam.	Exhaust Temp.	Veloc.
		Type	% by wt.	-		•	-cudonecus/gognecosis	NO. P. C.		ft/
		State and the state of the stat		-			ft.	in.	* F	sec
			_	_		****	ft .	in.	2F	sec
			- Constitution of the Cons	-						
	5.	Volume of disc	harge of emission	ms:		cu	. ft./min	•		_
	6.	Emissions:	Actual Est	imated - E	sased on _					
	•		. 11	0	+4+++ (+++	/unit time	`	Duration	(time/unit	time)
		Type of P	Collutant	- Quai	ICILY (WL.	· ·	٤.	Control of the Contro	The second secon	
			and the state of t			Accelet production of the second of the seco	-		nannagan innganasi kannasi di saman sa	
		•		gennessen er						
	7.	Attach process	flow diagram (b	lock type)	showing p	points, amo	ounts and	types of ex	missions.	
II.	Emis	sions from com	bustion					l		100
	1.	Combustion equ	ipment: (2) (EB Boile	rs	grand type had a state of the s	. <u>R</u> T	U/hr.	nonconner typenesses	sepower
		_	,	Туре						-
	2	Fuel:	Type		2	Gals./hr.	or Lbs	./hr. Z	Sulfur .	
			Kerosene		•				0.7	
		All the south of the second se	Refuseite		-	adayayaya karana ka				
							- Quantities	arramanimistassa putasan	·	
						imneys or	atacke.			
	3.	Control equipm	ent for emission		4. Ci	ilmieys or	Exhaus	t Exhaus	t Exha	ust .
		_	Efficienc	-		Height	Diam.		4	oc.
		Type Combustion	% by wt.			With the second		250	am 1 1	ft/ 89 sec.
		Control				<u>35</u> ft.	16	in. 350	F	ft/
		WARRIED WARRANT STATE OF THE ST				ft.		_ in	tr	sec.
		Start garanteen manus in Coldenna and and Coldenda Colonia, National Colonia, Nationa Colonia, N		•						
ui.	¥m4	seions from in	cineration or wa	ste dispos	al					•
LLL.										
	1.	Method for di	sposal of wastes							lbs/ day
	2.	Wastes: Type	distriction of the second seco	BOOKEN CONTRACTOR OF THE STREET			Quantity	Agricultural Commission of Province Commission of Commissi		lbs/
	•	T-nd-oustons	•						Connector	day
	3.	Incinerator:	Туре			Tra	de Mark		Capacity	ft/
	4.	Chimney or st	nok t	ft.		in			_2F Exh.	sec.
	4.	Chimney or st.	Height		Exh. Di	am.	Exh	. Temp.	Exn.	VC4.
	ξ	Auxiliary fue	1:				<i>P</i> -	or	s./hr.	7 Sulfur
	٦.	AUXIZIALY ZOC	Туре			Gal	s./hr.	ומגן	_	
	6.	Control equip	ment:				Ef	ficiency		by wt.
				Type		·			established	limits.
IV.	Con	pliance: Atta	ch data or infor	nation show	wing that	CINTRA YOUR	alletton	at the enis	sion source	i.
٧.	Cor	trol Equipment	: Attach sketch					ELISE SOTION SCHOOL TO PROPERTY OF SEC.	100 TO 100 100 100 100 TO 1	9 NOT JOSE 1955 ACT 1955 SIN 1950 SIN 1955 SIN 1
00 NS 600 NSC EX 60	K 88 85 25145	CAT BE CASE TRANSPER COME XXXX AN UN 102 NO.	CED T	TETCATION 1	RY AN ENGI	NEER OR A	CHEMIST	•		
7.0	erri	fy that I am re	ecistered and aut	horized to	practice	my profes	sion in I	Puerto Rico;	that the of the Air	equipment r Pollution
and	mea	sures for the	egistered and aut	ission are	adequate	and comply ty Board	y with the and that,	to the best	of my know	wledge and
F	B = 2 2	TARRETTERM	f the Puerto Rico ormation is true,	, 60414 2 2 2 1110		•				
J 40 &				rlos A.				arles a	1. Kees	reelo
-		959	↓ d	Name (announter expensión deservices (in the section of t		Signatu	re .	; ",
		cense Number		seeme (

COMMONWEALTH OF PUERTO RICO / OFFICE OF THE GOVERNOR APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

Cuality Board · · Part 11 - Plant Process and emissions description TC-1	NO SC. ICT 100 100 04
Quality Board - PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION TC-1	er cells ils il: er
I. Industrial Emissions	
1. Describe process or operation that emits atmospheric contaminants.	
Pharmaceutical Tablet Coating Process. Solvents are used to aid the coati	<u>ng</u>
process.	
, Tagamet 2508 kilo	s/day
2. Raw material used or processed: Type Quantity Unit/	
Efficiency Exhaust Exhaust Exhaust	
Type 7 by wt. Height Diam. Temp. Velo	ft/
Carbon Absorption 97 50 ft. 12X12in. 75 er 43	_3_sec ft/
ftinip	sec
5. Volume of discharge of emissions: 2600 cu. ft./min.	
6. Emissions: Actual Estimated - Based on Design efficiency	
Type of Pollutant Quantity (wt./unit time) Duration (time/unit time)	
Methylene Chloride 3.0 liters/day 8 hrs/day	eronnastrikek
SD 3A Alcohol 3.0 liters/day 8 hrs/day	unnage####
7. Attach process flow diagram (block type) showing points, amounts and types of emissions. II. Emissions from combustion	
1. Combustion equipment: BTU/hr. Horsepower	
Туре	-
2. Fuel: Type Gals./hr. or Lbs./hr. Z Sulfur	
3. Control equipment for emissions: 4. Chimneys or stacks:	
Efficiency Exhaust Exhaust Exhaust	•
Type 7 by Wt. ft/	
ftinsecft/	
ftinsec	
III. Emissions from incineration or waste disposal	
Control off-city TCD facility	
SD 3A Alcohol	s/ y
None	s/ Y
J. Include Mark Capacity	t/
4. Chimney or stack: ft. Exh. Vel.	ec.
None or	
Type Gals./hr. 1bs./hr. 2 Sul	
6. Control equipment: Carbon Absorption Efficiency	
TW Compliance: Attach date or information showing that emissions will not exceed the established limit	l. l
V. Control Equipment: Attach sketch of any control equipment installation at the emission source. See	
CERTIFICATION BY AN ENGINEER OR A CHEMIST	
I Certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipme and measures for the control of the emission are adequate and comply with the provisions of the Air Polli and measures for the control of the emission are adequate and comply with the provisions of the Air Polli and measures for the control of the emission are adequate and comply with the provisions of the Air Pollice Territory and the provisions of the Pollice Territory and the Pollice Te	tion and
Control regulations of the Puerto Rico Environmental quantum	
C6959 Carlos A. Acevedo Carlos A. Acevedo)
Signature	

	PART II - PIANT PROCESS	AND EMISSIONS		
I. Industrial Emissions	1 (5) (6) (5) (5) (5) (5) (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6	1 1994 1986 2017 1986 1987 1985 2,3000 1989 1985 1985 1987 1987 1987 1987 1987	g giệt (Đội Đứ: Đứ: 1900 Tại Tại Tài Tài Đứ: Một Đứ: Định Tài Tài Đài Điều ,	
			• -	,
1. Describe process or o	peration that emits atm	ospheric contami	nants.	,
	, and a second s	*		
		and the same of th		
2. Raw material used or	processed:		- decomposition of the contract of the contrac	
	Туре	-	Quantity	Unit/Uni Time
_			Chimneys or stacks	
3. Control equipment for		₩,	Exhaust	· Exhaust Exhaust
	fficiency L by wt.	<u>]</u>	Height Diam.	Temp. Veloc.
		•	ftin	. 2F
CONTRACTOR OF THE PROPERTY OF	hamman and the state of the sta	general density		
	annocondenses/PP-4/PP-4/PP-4/PP-4/PP-4/PP-4/PP-4/PP-		ftin	• • • • • • • • • • • • • • • • • • •
5. Volume of discharge of	emissions:	cu.	ft./min.	
	-			
6. Emissions: Actual	Estimated - Based	on		,
Type of Pollutant	Quantity	(wt./unit time)	Duration	(time/unit time)
	^	•	wheelegate enno-enterposeum/-discuss-su-connected-and	
Control Contro			·	
*				
7. Attach process flow di	agram (block type) show	ing points, amou	nts and types of e	missions.
Emissions from combustion	7,200			
1. Combustion equipment:	Cleaver Brooks B	Boiler		or200
I. Combustion equipment.	Туре		BTU/hr.	Horsepower
2. Fuel:	Гуре	Gals./hr.	or Lbs./hr. Z	Sulfur
-		60		0.7
Keros) EII E			water and the second se
		epuguasinononsingnusius-attendinto	ganasannolossa dismininonesta (SS)	and the state of t
			_	•
3. Control equipment for	emissions: 4.	Chimneys or si		
	fficiency -	Height_	Exhaust Exhaust Diam. Temp	9
Type	by wt.	S S A S A S A S A S A S A S A S A S A S	Chancel (control of property of the control of the	ft/
Control		30 ft.	<u>16</u> in. <u>350</u>	
Equipment		ft.	in	ft/ eFsec.
and as a barren	**************************************	Manager Control of Con		-
Emissions from incineration	n or waste disposal			
•				
1. Method for disposal of	wastes:			lbs/
2. Wastes: Type		<u> </u>	uantity	day lbs/
3. Incinerator:	•	•		day
\$ \$ 110 A 21 C 4 C C C C A 5	Туре	Trade	Mark	Capacity ft/
4. Chimney or stack: _	ft.	in.		sec.
	Height Exh	. Diam.	Exh. Temp.	EXII. AET.
5. Auxiliary fuel:			or	s./hr. Z Sulfur
	Туре	Gals.	/nr.	% by wt.
6. Control equipment:	Туре		Efficiency	· ·
Compliance: Attach data o	, Appe - information showing ti	hat emissions wi	ll not exceed the	established limits.
Control Equipment: Attach	-ketch of any control	equipment instal	lation at the emis	sion source.
Control Equipment: Attach	100 ET-100 ET-100		_	888° 125° 138° 1888° 1887° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888° 1888°
	CERTIFICATION BY AN I	ENGINEER OR A CH	EMIST	. akan tha anuinmant
Certify that I am registered d measures for the control of	and authorized to pract	ices my professi	on in Puerto Kico; ith the provisions	of the Air Pollution
d measures for the control of otrol regulations of the Puer	the emission are adequ to Rico Environmental Q	uality Board and	that, to the best	of my knowledge and
lief, the above information	s true, complete and ac	curate.	<i>^ , , ,</i>	` ~
c695 9	Carlos A. A	cevedo	Carles a	. Rieredo
License Number	Name (Typed)	THE PARTY OF THE P	Signatu	
·			March 507 March 508 March 508 March 507 March	

COMMONWEALTH OF PUERTO RICO / OFFICE OF THE GOVERNOR

APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

OPERATION OF EMISSION SOURCES IN PUERTO RICO

		vironmental ity Board -	· PART II - F	PLANT PROCESS A	ND EMISSIONS	DESCRIPTI	ON PE	ecaecarea	3 亿 二 3 二 2 3 3 7 7 7	Me 127 EZ
C 202 SEE 2002 SEE	M CH HO LEY		g vage soor soon allek sook kilik ikilik sook telih viilin min viilin soon Soomalik soo	1986 ST. 127743 SE 262 SE 265 SE 26744 SE 268 C	and the first transmission for the 200 to	76,000 NO. TO NO. 100 NO. 200 TO YES	الله والأمن الذاري والأمن الأمن		: : 	308
I.		dustrial Emissions	_							
	1.	Describe process	or operation th	at emits atmos	pheric contan	inants.	hutanol l	nased	!	
			rand name on						;	
		Alcohol (isop	propyl) and bu	tanol are us	sed for cie	aning of	equipmen	16.	; ;	
		quantum quantum and an analysis and an analysi								
	2.	Raw material use	d or processed:	Туре			Quantity		Unit/Unit	
				**					Time	
	3.	Control equipmen	t for emissions:	••	4.	-	or stacks:	W-1	99.3.	
		Type_	Efficiency % by wt.			Height	Exhaust Diam.	Exhaust Temp.	Exhaust Veloc.	- 1
		None	Accelerated Copyrights and Consequently and Copyrights and Copyrig			27 ft.	8_in.	amb. er	33	IT/ sec
		@	gas. General Processors Processors VIII-d Stringsto			ft.	in.	2.F		ft/ sec
	•		gov fenomentiennemidi-sensib-sakelendiridi@@@@	l.oo	***************************************	and a second sec			San and a san a	
	5.	Volume of dischar	rge of emissions:	400	cu.	. ft./min.				
	6.	Emissions:	Actual Estima	ted - Based on	<u>Usage</u>					
		Type of Poll	lutant	Quantity (w	t./unit time)	<u>L</u>	Duration (
		Ink Solvent 5% solution		.4130	bs/yr ·		20	hrs/wee	ek	
		.7893 g/ml.						•		
		-	obsessed and control of the control							
			ow diagram (block	k type) showin	g points, amo	unts and t	types of em	issions.		
	***************************************	ssions from combus						_ or	gaayevvuluuvuuvuvuvuvuvuvu	
	1.	Combustion equipm	.ent:	Туре	occuprimental complete explanation of the complete explana	BTU	J/hr.	Hor	sepower	
	2.	Fuel:	Type		Gals./hr.	or Lbs.	/hr. \ . 7. 5	ulfur		
		•		•				, manana, , , , and a little an		
			recentage opnomistible processors and a grant and a		Annugacione relicación acome restroctivo de con-					
					establisher i i i i i i i i i i i i i i i i i i i	guanissnorð	name of the second seco	necessaria de la companya de la comp		
	3.	Control equipment	for emissions:	4.	Chimneys or	stacks:				
		_	Efficiency	•	Height	Exhaust Diam.	Exhaust Temp.	Exhau Velo		
		<u>Type</u>	7. by wt.		(Crastensishing prompted)	,	•	8 TP	ft/ sec.	
			Annual Control		ft.	- Commentential Commission Commenter Commission Commenter Commission Commenter Comment	in		ft/	
	•		anting the second secon		ft.		in	_&F	sec.	
			tion or upsta	disnosal					-	
III.	Emi	•	eration or waste	OF TO be de to see		•				_
	1.	Method for dispo	sal of wastes: _			Quantity			lbs/ day	
	2.	Wastes: Type		and the state of t		QUALITIES .	<u></u>	, ₁₉₈ , ₁₉ , ₁₉ , 19,	lbs/ day	
	3.	Incinerator:	Type		Trad	le Mark		Capacity	uay ft/	
		61 1		ft.	in.			.y	sec.	
	4.	Chimney or stack	Height		Diam.	Exh.	Temp.	Exh.	Vel.	
	5.	Auxiliary fuel:		And the second s	Gals	./hr.	Or Lbs.	./hr.	% Sulfur	
	_	G-+1	Туре					%	by wt.	
	6.	Control equipment	Typ	ê	-	_	iciency	tablished	limits.	
IV.	Com	pliance: Attach	data or informati	on showing tha	t emissions w	vill not e	the eniss	on source	211111	
V.	Con	trol Equipment:	Attach sketch of				THE SECTION AND ADDRESS OF THE SECTION ADDRESS OF TH	R. Electric School Sept School Sept School Sept Sept Sept Sept Sept Sept Sept Sept	- 東原 100 100 200 100 100 200 200 100 20	, F 180 A000g
		·	CERTIFIC	ATION BY AN EN	GINEER OR A C	HEMISI	erto Rico:	that the e	quipment	
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Cont	rol	reculations of th	rol of the emissi e Puerto Rico Env tion is true, con	ATTOIMMENTER Am		-		_		
neil		959		Carlos A. Ac	•	Ca	uls de	1. Ree	redo	
Charles de maria		ense Number	\$ ####################################	Name (Typed)	*		Signatur	# 100,00 M 20 M 20 M 20 M 20 M		- 2 #8 #9
5 68 30 50 68 68	to; ch cs. 0	en des son een servier het son de septembre van de septembre van de septembre de septembre de septembre de sep	1986 (SEC (SEC (SEC CONTESSE) (SEC (SEC (SEC SEC SEC SEC SEC SEC SEC SEC SEC SEC	(4 carrus), (500 150) 300 300 100 300 500 500 500 500 500 500 500 500 5	ad 1866 1866 1867 1867 1867 1868 1868 1868			,		

GSK-PROTECO_000037

COMMONWEALTH OF PUERTO RICO / OF THE GOVERNMENT APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR OPERATION OF EMISSION SOURCES IN PUERTO RICO Environmental.___ Quality Board - - PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION WF I. Industrial Emissions 1. Describe process or operation that emits atmospheric contaminants. Part washing equipment with extraction unit. Located at shop. gals/yr 55 Degreaser 2. Raw material used or processed: Quantity Unit/Unit Type Time 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Efficiency Exhaust Veloc. ft/ Height Temp. Diam. Type % by wt. 33 sec. 8 in amb. if None ft/ ft . ____in. _ 400 _ cu. ft./min. 5. Volume of discharge of emissions: Estimated - Based on ______Degreaser losses 6. Emissions: Actual Duration (time/unit time) Quantity (wt./unit time) Type of Pollutant - 120 #/yr. Solvent 7. Attach process flow diagram (block type) showing points, amounts and types of emissions. II. Emissions from combustion or Horsepower 1. Combustion equipment: _ BTU/hr. Type Lbs./hr. Z Sulfur Gals./hr. 2. Fuel: Type 4. Chimneys or stacks: Control equipment for emissions: Exhaust Exhaust Exhaust Efficiency Temp. Veloc. Diam. Height % by wt. Type ft/ ____ in. ___ sec. ft/ ____ in. _____eF __ ft. Emissions from incineration or waste disposal III. 1. Method for disposal of wastes: - 1bs/ \ Quantity ___ day 2. Wastes: Type _ lbs/ day Incinerator: _ Capacity Trade Mark Type f+ / Exh. Temp. ft. Exh. Dism. 4. Chimney or stack: Exh. Vel. Height or Lbs./hr. % Sulfur 5. Auxiliary fuel: _ Gals./hr. Type __ % by wt. 6. Control equipment: Efficiency . Type Compliance: Attach data or information showing that emissions will not exceed the established limits. Control Equipment: Attach sketch of any control equipment installation at the emission source. CERTIFICATION BY AN ENGINEER OR A CHEMIST

I Certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipment and measures for the control of the emission are adequate and comply with the provisions of the Air Pollution Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief, the above information is true, complete and accurate.

C6959 License Number Carlos A. Acevedo Name (Typed)

GSK-PROTECO_000038

Application Number

R MAILING ADDRESS: P.O. DOX SANTURCE, PURATO RICO COX 11488 APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

E 100 SO: 100	ality Board -	100 mm 10	LANT PROCESS AND I	5055-300000061.000, 5001 0001.594; 800, 5001.0005.5	ga 565 yar 900 nor 552 100 Cb		或生形后 防興家 泰雅斯	, 186 Ez: Jage Saw and John daw 1896	60 es 1
_	ndustrial Emission			-					
1	. Describe proces	s or operation th	at emits atmospher	ic contami	nants.	lling now	dar is		
			ers filling, et	c. Durii	ng nanc	iring powe	261 13	- parameter parameter	
	released.	About 18 kilos	/day lóss.						
						<i>P</i> s.		/	
2	. Raw material us	ed or processed:	Tagamet			2508 Quantity		kilos/ Unit/Uni	
			Type		·	,		Time	
_		E		4. C	himeys	or stacks:	: '		
3.	. Control equipme	nt for emissions: Efficiency	• .			Exhaust	Exhaust Temp	Exhaust Veloc.	
	Туре	% by wt.	. •	*****	eight	Diam.			fı se
2)	Torit #4 & #5	98.5			The second secon	18X18 in.			_s ft
	D _{ust Collecto}	ors	•	es appointed	ft .	in.		tage and the same of the same	_se
	•		24,511	cu.	ft./min.	•			
5.	. Volume of discha	arge of emissions:	Control of the Contro	Materia					
6.	. Emissions:	Actual Estima	ited - Based on				(+i==12+	tima)	
	Type of Po	<u>llutant</u>	Quantity (wt./			Duration		CAUC)	
	Drug Powder		0.0169 kilos	s/day :		16	hrs/day		-
							rage description for the second second		
			k type) showing po				فيسود		
	Combustion equip		Type		вт	J/hr.	or Hor	sepower	-
		•		1s./hr. C	or Lbs	./hr 2	Sulfur		
2.	Fuel:	Type	5	18./112.	-			•	
				and the second s	_		,		
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					-	Parameter 4	*		
						Andrewskind (1995)	***************************************		
3.	Control equipmen	nt for emissions:	4. Chi	mneys or st		Exhaus	t Exha	ust •	
3.		Efficiency	• .	mneys or st	acks: Exhausi	Exhaus		oc.	
3.	Control equipmen		• .	eight	Exhaust	Тешр.			
3.		Efficiency	• .		Exhaust	Temp.	Vel	ft/ sec. ft/	
3.···		Efficiency	• .	eight	Exhaust	Тешр.	Vel	ft/	
٠.	Тура	2 by wt.	<u> </u>	eight ft.	Exhaust	Temp.	Vel	ft/ sec. ft/	
٠.	Тура	Efficiency	<u> </u>	eight ft.	Exhaust	Temp.	Vel	ft/ sec. ft/	
E	Тура	2 by wt.	disposal	eight ft.	Exhaust Diam.	in	Vel	ft/ sec. ft/ sec. 1bs/	-
E	Type missions from inci	2 by wt.	disposal	eight ft. ft.	Exhaust	in	Vel	ft/sec. ft/sec. ft/asec.	
<u>E</u>	Type missions from inci . Method for disp . Wastes: Type	2 by wt.	disposal	eight ft. ft.	Exhausi Diam.	in	vel	ft/ sec. ft/ sec. ft/ abs/ day	
·. <u>E</u>	Type missions from inci . Method for disp . Wastes: Type	2 by wt.	disposal	eight ft. ft.	Exhaust Diam.	in	velue velocity	ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ dsy ft/	,
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E 1 2 3 4 5	missions from inci . Method for disp . Wastes: Type . Incinerator: . Chimney or stac . Auxiliary fuel:	Type Type Type	disposal	ft. ft. Trade in.	Exhaust Diam. Diam. Wantity Hark Exh.	Temp. in. Temp. Temp.	Capacity Exh.	ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ dsy ft/ sec	
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1 2 3 4 5 6 <u>C</u>	Type missions from inci . Method for disp . Wastes: Type . Incinerator: . Chimney or stace . Auxiliary fuel: . Control equipme ompliance: Attach ontrol Equipment:	Type Type Reight Attach sketch of	ft. Exh. Discovered any control equipments of the control equipments	ft. ft. ft. Trade in. Gals. missions wi ment instal	Exhaust Diam. Diam. Wantity Hark Exh. /hr. Effi 11 not ellation services EMIST	Temp. in. in. in. in. cr lb: iciency xceed the cr t the enise	Capacity Exh. Exh.	oc. ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ day ft/ sec Vel. Z Sulfu by wt.	X
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E 1 2 3 4 5 6 C C	missions from inci . Method for disp . Wastes: Type . Incinerator: . Chimney or stac . Auxiliary fuel: . Control equipme compliance: Attach control Equipment:	Type Type Attach sketch of CERTIFIC istered and author mitrol of the emiss	ft. Exh. Discovered any control equipmental operations are adequate a principle of the control	ft. ft. ft. ft. Gals. Gals. Gals. Gals. Gals. Gals.	Exhaust Diam. Diam. Wantity Hark Exh. /hr. Effi Il not ellation s EMIST ion in P	Temp. in. in. in. or lb: iciency xceed the exist the enist perto Rico;	Capacity Exh. Exh. capacity capa	oc. ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ day ft/ sec. Z Sulfu by wt. limits.	e e e e e e e e e e e e e e e e e e e
E 1 2 3 4 5 6 C C ertificities	missions from inci . Method for disp . Wastes: Type . Incinerator: . Chimney or stac . Auxiliary fuel: . Control equipme compliance: Attach control Equipment:	Type Type Reight Attach sketch of CERTIFIC istered and authorist the Puerto Rico Emation is true, commation is true, commanded in the puerto Rico Emation is true, commanded in the puerto	ft. Exh. Discipled any control equipment of the control equipment of t	ft. ft. ft. ft. ft. Gals. Gals. missions winder instal ment instal ment instal my profession comply with the comply with the complexion of the com	Exhaust Diam. Diam. Wantity Hark Exh. /hr. Effi Il not ellation s EMIST ion in P	Temp. in. in. in. or lb: iciency xceed the exist the enist perto Rico;	Capacity Exh. Exh. capacity capa	oc. ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ day ft/ sec. Z Sulfu by wt. limits.	e e e e e e e e e e e e e e e e e e e

COMMONWEALTH OF PUERTO RICO / OF FICE OF THE GOVERNOR APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR OPERATION OF EMISSION SOURCES IN PUERTO RICO Environmental.... - PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION Quality Board I. Industrial Emissions 1. Describe process or operation that emits atmospheric contaminants. Accela Cotta Tablet Coating. Compressed 'Tagamet' powder (ulcer treatment compound) is coated with edible hard setting substance. During the process dust is exhausted, about five kilos per day. kilos/day 2090 Tagamet 2. Raw material used or processed: Unit/Unit Quantity Type Time 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Exhaust Temp. Veloc. Height Diam. % by wt. Type 68.9 ft/ sec. 33 ft. 22X19n. 75 kg 98.5 Torit dust ft/ Collector #6 ___in. __ 12,000 cu. ft./min. 5. Volume of discharge of emissions: Estimated - Based on ____Mass balance (projected) Duration (time/unit time) Quantity (wt./unit time) Type of Pollutant 16 hrs./day 0.0047 Drug powder 7. Attach process flow diagram (block type) showing points, amounts and types of emissions. II. Emissions from combustion 1. Combustion equipment: BTU/hr. Gals./hr. Lbs./hr. Z Sulfur 2. Fuel: Type 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Exhaust Efficiency Veloc. Diam. Temp. Height . Z by wt. Туре ft/ ___ ft. ____ in. ___ _ ft. Emissions from incineration or waste disposal

1. M	dethod for disposal of wastes:		Married State of the State of t		lbs/
	• . .	V · Qu	entity		day
2. W	Nastes: Type	-			lbs/
					day
3. I	Incinerator:Type	Trade h	iark	Capacity	ft/
	F.	in.		2.F	sec.
4. C	Thimney or stack:ft. Height	Exh. Diam.	Exh. Temp.	Exh. V	el.
5. A	auxiliary fuel:		or .	Lbs./hr.	Z Sulfur
	Type	Gals./h	i T .	LDB./III.	a Julium
				7 1	by wt.
	Control equipment:		Efficiency		
	iance: Attach data or information show	ing that emissions will	not exceed th	e established	limits.
Comp I	lance: Attach data or information should	246		iccion source.	
Contr	ol Equipment: Attach sketch of any cont	trol equipment installa	CIOD Mr fue em	THE RESERVE THE PROPERTY OF TH	

CERTIFICATION BY AN ENGINEER OR A CHEMIST

I Certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipment and measures for the control of the emission are adequate and comply with the provisions of the Air Pollution Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief the above information of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief, the above information is true, complete and accurate.

Carlos A. Acevedo .

Name (Typed) License Number

IV.

C 6959

OPERATION OF EMISSION SOURCES IN PUERTO RICO Environmental. · PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION G-1 & 2 Quality Board I. Industrial Emissions 1. Describe process or operation that emits atmospheric contaminants. Glatts 1 & 2: Tagamet powder's are mixed, granulated and dryed on an air suspension chamber. Air pass through the chamber and then through a built-in kilos /day loss bag house - 3.3 kilos/day 2508 Tagamet 2. Raw material used or processed: Unit/Unit Quantity Type Time 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Exhaust Veloc. ft/ Efficiency Temp. Diam. Height % by wt. 16.6 sec. 18 in. 104 *F 80.0 Filter bag (2) ft/ _in. ____ 4700.0 5. Volume of discharge of emissions: Estimated - Based on ___Material Balance Actual 6. Emissions: Duration (time/unit time) Quantity (wt./unit time) Type of Pollutant 0.04 kilos/hr. 16 hrs. / day Drug Powder 7. Attach process flow diagram (block type) showing points, amounts and types of emissions. II. Emissions from combustion Horsepower 1. Combustion equipment: BTU/hr. or Lbs./hr. Z Sulfur Gals./hr. Type 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Efficiency Veloc. Temp. Diam. Height % by wt. Type ft/ sec. in. ft. ft/ _ in. _ Emissions from incineration or waste disposal Method for disposal of wastes: day Quantity 1bs/ 2. Wastes: Type day Capacity Incinerator: Trade Mark ft/ Type in. Exh. Vel. Chimney or stack: Exh. Temp. Exh. Diam. Height Lbs./hr. % Sulfur 5. Auxiliary fuel: Gals./hr. Type % by wt. Control equipment: _ Efficiency Compliance: Attach data or information showing that emissions will not exceed the established limits. Control Equipment: Attach sketch of any control equipment installation at the emission source. CERTIFICATION BY AN ENGINEER OR A CHEMIST I Certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipment and measures for the control of the emission are adequate and comply with the provisions of the Air Pollution Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief, the above information is true, complete and accurate. Carlos A. Acevedo C 6959 Signature . Name (Typed) License Number Application Number ___

COMMONWEALTH OF PUERTO KILLY OFFICE OF

OPERATION OF EMISSION SOURCES IN PUERTO RICO Environmental. Quality Board · PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION VC-1 I. <u>Industrial Emissions</u> 1. Describe process or operation that emits atmospheric contaminants. During storage, handling and processing, the powder mixtures are lost in small amounts. The powder scattered around the processing machines, the employees A vacuum cleaner system is available at those places to clothes and the floor. collect the scattered dust.
Rew material used or processed: Type Quantity Unit/Unit Time 3. Control equipment for emissions: 4. Chimneys or stacks: Efficiency Exhaust Exhaust Exhaust Reight Type . % by wt. Diam. Temp. ft/ Bag Filter 98.5 8 <u>in. 104</u> 11.9 sec. in. 1500 5. Volume of discharge of emissions: cu. ft./min. Estimated - Based on __material balance (adjusted) 6. Emissions: Actual Type of Pollutant Quantity (wt./unit time) Duration (time/unit time) Drug Powder 0.030 kilos/hr. 7. Attach process flow diagram (block type) showing points, amounts and types of emissions. II. Emissions from combustion Horsepower 1. Combustion equipment: BTU/hr. Type 2. Fuel: Gals./hr. Lbs./hr. 2 Sulfur Type 4. Chimneys or stacks: 3. Control equipment for emissions: Efficiency Exhaust Exhaust Diam. Temp. Veloc. <u>Height</u> % by wt. Type ft/ ft. in. sec. ft/ in. Emissions from incineration or waste disposal Method for disposal of wastes: Wastes: Type Quantity _ day lbs/ Incinerator: day Trade Mark Capacity Type ft/ Chimney or stack: ft. in. Exh. Temp. Exh. Vel. Exh. Diam. Height 5. Auxiliary fuel: Lbs./hr. % Sulfur Gals./hr. Type 6. Control equipment: ___ I by wt. Efficiency Type Compliance: Attach data or information showing that emissions will not exceed the established limits. Control Equipment: Attach sketch of any control equipment installation at the emission source. CERTIFICATION BY AN ENGINEER OR A CHEMIST l certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipment and measures for the control of the emission are adequate and comply with the provisions of the Air Pollution Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief, the above information is true, complete and accurate. C 6959 Carlos A. Acevedo -

COMMONWEALTH OF PUERTO HICO / OFFICE OF THE C

License Number

Pate

And I teation Number

,....

Name (Typed)

Signature

SK8F LAB CO.

P.O. Box 3930, Carolina, Puerto Rico 00630

November 28, 1979

Mr. Juan Merced Environmental Quality Board P. O. Box 11488 Santurce, Puerto Rico 00910

Dear Mr. Merced:

RE: SK&F LAB CO. - Carolina, Puerto Rico Package of Emission Sources Operation Permit Application

Herewith we are forwarding duly signed and notarized "Application for Approval for the Operation of Emission Sources in Puerto Rico for all emission sources at our Carolina facilities.

We are also including a copy of EQB Air Pollutant Emission Summary Report.

Please make all necessary arrangements to place our permits applications into the proper schedule.

In case you may have any doubt, do not hesitate to contact me.

Very truly yours,

SK&F LAB CO.

Carlos A. Acevedo ... Staff Engineer

zr Enclosures



Junta de Calidad Ambiental

10 de diciembre de 1979

PFE-

1279-0978-I-II-O

SMITH, LINE AND FRENCH

LAB. CO. CAROLINA

Ing. Carlos Acevedo P.O. Box 1983 Carolina, Puerto Rico Fecha de

Recibo: 5 diciembre 1979

Estimadosseñor Acevedo:

Su "Solicitud para Aprobación para Construcción u Operación de Fuentes de Emisión en Puerto Rico" fue recibida en la fecha arriba indicada y se le ha asignado la codificación que también aparece en el epigrafe.

Agradeceremos que en cualquier ocasión futura en que le fuere a usted necesario comunicarse con esta Junta tenga la bondad de utilizar dicha codificación.

Informaremos a usted sobre la decisión tomada en este caso tan pronto como nos sea posible.

Atentamente,

Amelia Marrero Ginés Jefe, División de

Radicaciones y Querellas

COMMON MEALTH OF FUERTO RIC - OFFICE OF THE GOVERNOR Environmental Quality Board

OFFICE OF THE BOARD: 204 DEL PARQUE ST. - ESQ. PUMARADA SANTURCE, PUERTO RICO 00911

APPLICATION FOR APPROVAL FOR THE TENTETHER BY

OPERATION OF EMISSION SOURCES IN PUERTO RICO

PARTIE ADDITION TOTAL -

=====	PART I - GENERAL INFORMATION
	Original Revision No (Check only)
1.	Applicant A. Name of project or emission source: Smith, Kline and French Lab.Co.(Carolina)
	Carolina, Puerto Hico
	coordination and correspondence: SMILLII. KIIIIC Organization
	Eng. Carlos Acevedo Staff Engineer 739-8401
	Name of Official Tittle 1el. No.
	D. Postal address: 1983 Carolina UD630 P. O. Box No. Municipality ZIP Code
2.	Purpose of application: Construction X Operation (Check one)
3.	Nature of business: Pharmaceutical Mfg. 4. No. of employees at site:
	•
5.	Annual production (any convenient unit) 7. If intermittent operation, frequency
6.	16 hrs./day 5 days/wk. 12 mos./yr.
8.	Attach the following documents:
	A. Location map of plant site (projected or existing) indicating neighboring fields and prominent points or structures.
	B. Layout plan of all facilities (projected or existing) indicating clearly all emission sources.
	C. Plans and specification of the emission source and its control measures or equipment.
	D. Information about any air sampling or monitoring equipment used, intended to be used or owned by applicant, including type, trade mark, method, operation schedule, etc.
9.	list all approvals or denials granted by Federal, State or Local agencies for any structure, construction,
	permit for use or requested number, and Santesty permit for use or requested number of the santesty permit for use of the santesty permit for u
	Type of Permit Issuing Agency Island
10.	Did facility exist, or was it lawfully under construction prior to September 16, 1971?
	Yes No (Check one)
	CERTIFICATION
	Application is hereby made for a permit or permits to authorize the activities described herein. I certify that, to the best of my knowledge and belief, such information is true, complete and accurate.
	Signature of applicant
-	AFFIDAVIT
	Affidavit No.
	Sworn and suscribed before me byresponsible officia
	of legal age, civil status
	· · · · · · · · · · · · · · · · · · ·
	In, Puerto Rico, this day of
Resident description (Section 1999)	Notary Public
a =	FOR EQU USE ONLY
	Permit issued on Expires on Application Number Expires on Supplication Number Permit issued on Supplication Number Supplicatio
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CONTRONNEALTH OF PUERTO FICO / OFFICE THE GOVERNOR BAILING AND ERE P.O.P. APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

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6	. Contr	rol equipm	ent:	Тур	e			E	fficienc	у		•	
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v. g	ontrol	Equipment:	Attach s	cetch of	any contro	ol equipmen	t insta	llation	at the	emissi	On sou	resesses	ag 105 elk 100 1
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7.	Attach process	flow diagram (block		points, smo	unts and	rypes of e		•
Emi	ssions from comb	oustion Cummin	gs Motor		-			900
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Cuality Board PART II - PLANT PROCESS AND EXISSIONS DESCRIPTION DEG-1	
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I. Industrial Emissions	
1. Describe process of operation that emits atmospheric conteminants.	nto
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operation keeping vital sections of the plant powered.	
	<u>.</u>
2. Raw material used or processed: Onentity Unit	4
TAD®	t/Unit Cime
. 4. Chiwneys or stacks:	
3. Control equipment for emissions.	naust
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5. Volume of discharge of emissions: cu. ft./min.	
6. Emissions: Actual Estimated - Based on	
O. pulsolous.	ne)
Type of Pollutant Quantity (wt./unit time) Duration (time/unit time)	
and types of emissions.	
7. Attach process flow diagram (block type) showing points, amounts and types of emissions.	
II. Emissions from combustion ONAN Electric or 160	
1. Combustion equipment: Generating Plant BTU/hr. Horser Type	ower
Gals./hr. or Lbs./hr. Z Sulfur	
2. Fuel: Type 0.7	
Diesel	
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3. Control equipment for emissions: 4. Chimmeys or stacks. Exhaust Exhaust Exhaust	:
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4. Chimney or stack: Exh. Diam. Exh. Temp.	
5. Auxiliary fuel:	% Sulfur
Type 7.1	by wt.
6. Control equipment:	limits
Type IV. Compliance: Attach data or information showing that emissions will not exceed the established in the emission source.	
V. Control Equipment: Attach sketch of any control equipment installation of the second secon	EN EU EUR 100 100 450 655 EN 120 100 656
CERTIFICATION BY AN ENGINEER OR A CHEMIST	uioment
I Certify that I am registered and authorized to practices my profession in Fuerto Rico; that the end measures for the control of the emission are adequate and comply with the provisions of the Air Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge, the above information is true, complete and accurate.	Pollution ledge and
Carlos A. Acevedo	
C-6959 Name (Typed) Signature	E E 30 Str 100 Str 00 St 00 St 00 St 00

BANTUNCE, PURRTO RICO (1910/TELEPHONE: 176-6140

APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR OPERATION OF EMISSION SOURCES IN PUERTO RICO

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I. I	ndustr	isl Emissions								
		cribe process		that emit	s atmospheric	contami	nants.	•		
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								•		
	ىمىمىس								<del></del>	
2	. Raw	material uses	d or processe	d:						
				ז	Iype			Quantity		Unit/Unit Time
· 3.	. Cont	trol equipment	t for emission	ns:		4. (	Chimneys	or stacks:	:	
			Efficiency			•		Exhaust	Exhaust	Exhaust
		Type	% by wt.	<del>-</del> .		ī	<u>Height</u>	Diam.	Temp.	f
	-		engree o <u>Andre o o o o o o o o o o o o o o o o o o o</u>	-				in.		f
			£ ####################################				ft.	in.		s
5.	. Volu	me of dischar	ge of emission	ms:		cu.	ft./min.			
6.	. Emis	sions: A	ctual Est	imated - B	ssed on					
		Type of Poll	utant	Quan	tity (wt./un	it time)		Duration	(time/unit	time)
				tonomicolohia energy energia de						
		ch process flo		lock type)	showing poir	its, amou	nts and	types of en	missions.	
		s from combust	Ca3 a	SB Boil	ere				or 10	00
1.	Comb	ustion equipme	ent: Lej o	Type	. W. W.		BT	U/hr.		sepower
2.	Fuel	•	Type		Gals	./hr.	or <u>Lbs</u>	./hr. 7	Sulfur	
2.	Fuel	:	Туре		<u>Gals</u>	./hr.	or <u>Lbs</u>	./hr. %	Sulfur	
2.	Fuel	-	Туре		<u>Gals</u>	./hr.	or Lbs	./hr. <u>7</u>	Sulfur	
2.	Fuel		Туре		Gals	./hr.	or <u>Lbs</u>	./hr. <u>7</u>	Sulfur	
				9 :				./hr. 7		boiler
		: rol equipment	for emission	y	4. Chimn	eys or si	tacks: [C	one for	the 2	ust
	Conti	rol equipment	for emission	y	4. Chimn		tacks: [C Exhaust Diam.	one for Exhaus Temp.	the 2	oc. ft/
	Conti	rol equipment	for emission	y	4. Chimn	eys or si	tacks: [C Exhaust Diam.	one for	the 2	oc. ft/
	Conti	rol equipment  Type  bustion	for emission	y	4. Chimn	eys or si	Exhaust Diam.	one for Exhaus Temp.	the 2	oc. ft/ 39 sec.
3.	Cont	rol equipment  Type bustion	for emissions Efficience 7. by wt.	y - -	4. Chimm <u>Hei</u> 53	eys or si	Exhaust Diam.	one for Exhaus Temp.	the 2 t Exha Vel	ft/ 39 sec. ft/
3. <u>En</u>	Conti	rol equipment  Type bustion trol	for emissions Efficiency 7 by wt.	y - - ste disposa	4. Chimm <u>Hei</u> 53	eys or si	Exhaust Diam.	one for Exhaus Temp.	the 2 t Exha Vel	ft/ 39 sec. ft/
3. <u>En</u>	Conti	rol equipment  Type bustion	for emissions Efficiency 7 by wt.	y - - ste disposa	4. Chimm <u>Rei</u> 53	eys or si	Exhaust Diam.	one for Exhaus Temp. in. 350	the 2 t Exha Vel	ft/ 39 sec. ft/ sec.
3. <u>En</u>	Control Contro	Type  bustion  trol  s from incine	for emissions Efficiency 7 by wt.	y - - ste disposa :	4. Chimm <u>Hei</u> 53	eys or si	Exhaust Diam.	one for Exhaus Temp. in. 350	the 2 t Exha Vel	ft/ 39 sec. ft/ sec.
3. En 1.	Control Contro	Type Shustion trol  as from incine	for emissions Efficiency 7. by wt.	y - - ste disposa :	4. Chimm <u>Hei</u> 53	eys or si	Exhaust Diam. 16	one for Exhaus Temp. in. 350	the 2 t Exha Vel	ft/ 39 sec. ft/ sec.  1bs/ day 1bs/ day
3. En 1. 2.	Control Commission  Methodology  Inci	Type bustion trol as from incine nod for dispos	for emissions Efficiency 7 by wt.	y - ste disposa :	4. Chimm <u>Hei</u> 53	eys or si	Exhaust Diam.	one for Exhaus Temp. in. 350	the 2 t Exha Vel 1.E	ft/ 39 sec. ft/ sec.  1bs/ day 1bs/ day
3. En 1. 2.	Control Commission  Methodology  Inci	Type  abustion  trol  as from incine  and for dispos	for emissions Efficiency 7 by wt.	y - - ste disposa :	4. Chimm <u>Hei</u> 53	eys or si	Exhaust Diam.  16	one for Exhaus Temp. in. 350	the 2  t Exha  Vel  af 1.8  af 1.8	ft/ sec.  lbs/ day lbs/ day ft/
1. 2. 3.	Control Commission  Meth Wast Inci	rol equipment  Type bustion trol  as from incine nod for dispos es: Type nerstor: mey or stack:	for emissions Efficiency % by wt.  eration or was sal of wastes:  Type Height	y - ste disposa :	4. Chimm Hei 53	eys or si	Exhaust Diam.  16  Quantity  Mark  Exh.	Temp.	the 2  t Exha Vel  1 1.8  1	lbs/lbs/lbs/sec.  ft/sec.
1. 2. 3.	Control Commission  Meth Wast Inci	Type bustion trol as from incine nod for dispos	for emissions Efficiency 7. by wt.	y - ste disposa :	4. Chimm Hei 53	eys or si	Exhaust Diam.  16  Quantity  Mark  Exh.	Temp.	the 2  t Exha  Vel  **F 1.8  **F  Capacity  **Exh.**	ft/ sec.  1bs/ day 1bs/ day 2 sec.  Vel.
3. En 1. 2. 3. 4.	Control Contro	Type  bustion  trol  s from incine  od for dispos  es: Type  nerator:  mey or stack:  liary fuel:  rol equipment	for emissions Efficiency 7 by wt.  Peration or was sal of wastes:  Type Height Type	ste disposa	4. Chimm Hei 53 al	ght  ght  ft.  ft.  Cals.	Exhaust Diam.  16  Quantity  Mark  Exh.	Temp.  Temp.  Temp.	the 2  t Exha  Vel  **F 1.8  **F  Capacity  **P  Exh.	ft/ sec.  ft/ sec.  lbs/ day lbs/ day vel.  7 Sulfur
Em 1. 2. 3. 4.	Continuous	rol equipment  Type  bustion  trol  as from incine  nod for dispos  es: Type  nerator:  mey or stack:  liary fuel:  rol equipment  ce: Attach d	for emissions  Efficiency 7 by wt.  Peration or was  sal of wastes:  Type  Height  Type  sata or inform	ste disposa  ft.  Type nation show	4. Chimm Hei 53 al	eys or sight  ght  ft.  ft.  Trade  in.  Gals.	Exhaust Diam.  16  Quantity  Mark  Exh.  /hr.	Temp.  Temp.  Temp.  Temp.  Temp.  Temp.	the 2  Exhavel  F 1.8  F 2.6  Capacity  Exh.  S./hr.	tust oc. ft/ 39 sec. ft/ sec.  lbs/ day lbs/ day  ft/ sec.  Vel.  7 Sulfur 7 by wt. d limits
Em 1. 2. 3. 4.	Continuous	Type  bustion  trol  s from incine  od for dispos  es: Type  nerator:  mey or stack:  liary fuel:  rol equipment	for emissions  Efficiency 7 by wt.  Peration or was  al of wastes  Type  Height  Type  sta or informattach sketch	ft.  Type nation show	4. Chimm  Hei  53  al  Exh. Diam.	eys or sight  ght  ft.  ft.  Trade  in.  Gals.	Exhaust Diam.  16  Quantity  Mark  Exh.  /hr.  Eff Il not elation a	Temp.  Temp.  Temp.  Temp.  Temp.  Temp.	the 2  Exhavel  F 1.8  F 2.6  Capacity  Exh.  S./hr.	tust oc. ft/ 39 sec. ft/ sec.  lbs/ day lbs/ day  ft/ sec.  Vel.  7 Sulfur 7 by wt. d limits
3.  En  1.  2.  3.  6.  Co  Co	Continuission  Com  Com  Meth  Wast  Inci  Chim  Auxi  Cont	rol equipment  Type  bustion  trol  s from incine  nod for dispos  es: Type  nerator:  mey or stack:  liary fuel:  rol equipment  ce: Attach d  Equipment: A	for emissions  Efficiency 7 by wt.  Pration or was  al of wastes:  Type  Height  Type  ttach sketch  CERTI	ft.  Type nation show of any con	4. Chimm  Hei  53  All  Exh. Diam.	ght  ght  ft.  ft.  Trade  in.  Gals.  ssions wi nt instal	Exhaust Diam.  16  Quantity  Mark  Exh.  /hr.  Eff 11 not elation a	Temp.  Temp.  Temp.  Temp.  tin. 350	the 2  Exha  Vel  1	lbs/ sec.  ft/ 39 sec.  ft/ sec.  lbs/ day lbs/ day  sec.  Vel.  Z Sulfur Z by wt.  d limits e.
2. 3. 4. 5. Co	Control Com Con mission Meth Wast Inci Chim Auxi Cont	rol equipment  Type  bustion  trol  s from incine  nod for dispos  es: Type  nerstor:  mey or stack:  liary fuel:  rol equipment  ce: Attach d  Equipment: A  at I am regist  for the conti	for emissions  Efficiency 7 by wt.  Pration or was  al of wastes:  Type  Height  Type  tata or informatiach sketch  certificated and autirol of the emissions of the emission	ft.  Type nation show of any con FICATION B horized to ission are Environment	Exh. Diam.  Exh. Diam.  Ting that emistrol equipment of the equipment of t	ght  ght  ft.  ft.  ft.  Trade  in.  Gals.  ssions wi nt instal  comply: board and	Exhaust Diam.  16  Unantity  Mark Exh.  /hr.  Eff Il not elation a  EMIST ion in Portifit the	Temp.  or Lb.  iciency  xceed the emissurerto Rico;  provisions	the 2  t Exha Vel  1 1.8  1 1.8  1	lbs/ sec.  ft/ 39 sec.  ft/ sec.  lbs/ day lbs/ day rt/ sec.  7 Sulfur 7 by wt.  d limits e.  equipment r Pollution
En  1.  2.  3.  4.  Co  Co  Co  co  co  co  co  co  co  co	Control Com Con mission Meth Wast Inci Chim Auxi Cont	rol equipment  Type  bustion  trol  s from incine  nod for dispos  es: Type  nerator:  mey or stack:  liary fuel:  rol equipment  ce: Attach d  Equipment: A  at I am regist for the contribations of the shove informat	for emissions  Efficiency 7 by wt.  Peration or was  sal of wastes:  Type  Height  Type  Sata or informatiach sketch  CERTI tered and autirol of the emission is true,	ft.  Type  ation show of any con FICATION B horized to ission are Environment complete s	Exh. Diam.  Exh. Diam.  Ting that emistrol equipment of the equipment of t	ght  ght  ft.  ft.  Trade  in.  Gals.  ssions wi nt instal  R OR A CH profess: comply Board and	Exhaust Diam.  16  Unantity  Mark Exh.  /hr.  Eff Il not elation a  EMIST ion in Portifit the	Temp.  or Lb.  iciency  xceed the emissurerto Rico;  provisions	the 2  t Exha Vel  1 1.8  1 1.8  1	lbs/ sec.  ft/ 39 sec.  ft/ sec.  lbs/ day lbs/ day rt/ sec.  7 Sulfur 7 by wt.  d limits e.  equipment r Pollution

### MAILING ADOVE A P.O. P. APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

vai	ity Boa	:3ntal	PART II - PL	ANT PROC	ess and	EMISSIONS	DESCRIPT	ON CBB-	· 	金融 经过限 对 安然实 成 8
10° mandi 1004		Frissions	_							
*****		bs process of	annuables the	t omits	atrocapha	ric contam	inants.			
1.	Descri	pe brocess or	operation tha	it thinks	a company					1
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						•		
			hander the second secon							
		professor the control of the control			name of the same o					
2.	Raw ma	terial used or	r processed:	Ty	pe			Quantity		Unit/Unit Time
								_		1 1
3.	Contro	ol equipment fo	or exissions:			4.	Chimney	or stacks	Exhaust	Exhaust
	<b>e</b> 8		Efficiency % by wt.				Height	Exhaust Diam.		Veloc.
	1	Abs	20, 40.				ft	in		
								in		Í
		And the control of th	Control of the Contro			-			•	
5.	Volume	of discharge	of emissions:			cu	. ft./mi	1.		
6.						/unit time			(time/uni	t time)
	<u>I</u>	ype of Polluta	ant	Quant	TEN (ME.	/ with fine				
					<u></u>			A CONTRACTOR OF THE CONTRACTOR		
							and the state of t		or produce the same of the sam	
		Marriago - agra-sil i silipina di Arrigan an a marriago agricologo agricologo agricologo agricologo agricologo			••		oumts and	types of	emissions.	
		process flow	077				Junes But	,		
Em	issions	from combustic	≕ _ Cleaver	Brook	cs Bo	iler			or	200
1.	Combus	tion equipment	is a	Туре	Andrew Control of the		1	TU/hr.	H	orsepower
•	Fuels		Туре			Gals./hr.	or U	s./hr.	% Sulfur	
Ζ.	Fuel:	Keros				60	,		0.7	
		- Kei U:	30.10							
				4-44						
		_			4. C	himneys or	stacks:			
3.	Contro	ol equipment fo	Efficiency		4.		Exha			haust
	T	Суре	% by wt.			Height	Dia	a. Tem	<u>v</u>	eloc. _ ft/
	_	oustion				50 ft	. 1	5 in. 35	O tr	1.9 sec.
		trol						in	e.F	ft/ sec.
		pment	* ····································			A. 6				
_		s from inciner	erion or wast(	e disposa	<b>1</b>					
1	. Metho	od for disposa				•	Ouent4	ty		lbs/ day
2	. Waste	es: Type				And the second s	QUANCI	- ,		lbs, day
3	. Inci	nerator:					rade Hark		Capaci	ty
			Туре	_			in.		2.F	ft
4	. Chim	ney or stack:	Reight	ft.	Exh. I		E	xh. Temp.	Ex	ch. Vel.
	i							or		% Sulf
5	i. Aux1	liary fuel: _	Туре			G	als./hr.		Lbs./hr.	% Suite
	. Cont	rol equipment:	,		····	,		Efficiency		-
6	ļ			edon abor	wing that	t emission	s will no	t exceed th	ne establis	shed limits
	Complian	ce: Attach da Equipment: At	ICH OF THIOTHN	f any co	ntrol eq	uipment in	stallatio	n at the e	nission so	urce.
		Equipment: At			WE LA LEG	THEFR OR	A CHEMISI			
2	Control		CERTIF						co; that t	he equipmen
2	Control		. الأخدية الأرب		, F		oly with	the provisi	ons of my	knowledge &
	Control	at I am regist	ere and author of of the emis	ssion are	adequat	o and com	and the	F 9 FF	EDL UL MJ	•
Cer	control in the seasures	tor the court	number Pico i	Environme	ental Qua	lity Boar	i and tha	c, co	est or my	
Cer nd m ontr	control :	for the conti- lations of the above informat	Puerto Rico I	Environme complete	ental Qua and accu	ility Board irate.	i and tha			
Cernd montrelie	control in the seasures	for the conti- lations of the above informat	Puerto Rico I	Environme complete arlos	ental Qua and accu	ility Board irate.	i and tha		ature	1 to 16 to 06 to 70 to 16 to 16

### CO DEDARGEARTH OF PUERTO BICO / OF FIG. THE GOVERNOR RAILING ADDARS ROY APPLICATION FOR APPROVAL FOR THE CONSTRUCTION OR

ゔo		vronmentat ty Board	PART II - I	PLANT PROCESS AND EMISS	IONS DESCRIPT	ION C-1	
EZ JOS BONDON R	Y	ustrial Emissions	37 1850 1850 1850 1850 1850 1850 1850 1850	guddin 1904, sinnsala sius sijhinasi. Noqoodaanaadii 1204,000garqaa paraggiinaasaanaa ka			
I.			or operation the	nat emits atmospheric c	ontaminants.		
			M	ming Process.	Lombresse	d 'Tagamet	powder .
		(ulcer trea	tment com	pound) is coat	eo Mini e	ted about	one percent
		substance.D	uring the	process dust	15 EXHAUS		_
	2.	Raw material used	or processed:	Cimetidine Type		1500 Quantity	Kilos/day Unit/Unit Time
•	3.	Control equipment	for emissions:	:	4. Chimneys	or stacks:	
	-		Efficiency		Heigh <u>t</u>		mp. Veloc.
		Type	7 by wt.		Control of the last of the las	22×19 _{in.} 14	£ . 1
		Torit dust	99.9			in.	ft/
					It.		sec.
	5.	Volume of discharg	e of emissions	: 15,000	_ cu. ft./min		
	6.	Emissions: Ac	tual Estim	sted - Based on Mas	s Balance		
		Type of Pollu	tant	Quantity (wt./unit		Duration (time 16 hrs/d	
		Table Dust	n Angenikakannangengangangan	0.000125 kilos	/hr.	16 nrs/c	·
			and the second s	_			lons
	7.	Attach process flo	w diagram (blo	ck type) showing points	s, amounts and	types of emiss:	ions.
II.		ssions from combust		•			or
	1.	Combustion equipme	III.	Туре	В	TU/hr.	Horsepower
	2.	Fuel:	Type	Gals.	hr. or Lb	s./hr. Z Sulf	<u>fur</u>
			,				
		granus de la companya				Market and the second s	
		Washington Market States and Advanced Annual States and Annual Sta			_		
	3.	Control equipment	for emissions:	4. Chimney	ys or stacks: Exhau	or Exhaust	Exhaust
		Туре	Efficiency % by wt.	Heigh			Veloc.
		<u>-1</u>			ft	in	ft/ sec.
				Extra del Carlo	<del></del> ,	in	it/
			***************************************				
ııı.	Em	issions from incine	ration or wast	e disposal			
		Method for dispos					1bs/
	_	_			Quantit	у	day
	2.	Wastes: Type					lbs/ day
	3.	Incinerator:	Туре	-	Trade Mark	C	apacity ft/
	4.	Chimney or stack:		ft. Exh. Dism.	in. Ex	h. Temp.	Exh. Vel.
			Beight	Exh. Diam.		or	
	5.	Auxiliary fuel:	Туре		Gals./hr.	Lbs./	
	6.	Control equipment		Type	E	fficiency	% by wt.
~	<b>c</b>	 	less or informa	tion showing that exist	sions will not	exceed the est	ablished limits.
IV. V.	00	ntrol Fauinment:	ttach sketch	of any control equipmen	t installation	at the emission	B
	2 105 TOP TOT 22		ር የተውጥ ፕ የ	TOATTON BY AN ENGINEER	OR A CHEMIST		
1	Cert	ify that I am regis	tered and auth	orized to practices my	y-ofession in	Puerto Rico; the provisions of	at the equipment the Air Pollution
. an	d me	asures for the cont	- Puerto Rico	orized to practices my asion are adequate and Environmental Quality I complete and accurate.	Board and that	, to the best of	my knowledge and
		C-6959		los A. Acevedo		Signature	
-	L	icense Number	o can see the	Name (Typed)	nai baawaa maraar nai nai 100 Tao iya iya maraaf ba	**************************************	n der som
je er m m		ng 19 Marrie Street on the feet we derivated district to g		Aş	pplication Num	ber	
Da	te						

#### OPERATION OF EMISSION SOURCES IN PUERTO RICO

Environmental_____ Quality Board PART II - PLANI PROCESS AND EMISSIONS DESCRIPTION I. Industrial Emissions 1. Describe process or operation that emits atmospheric contaminants. Printing of brand name on capsules and tablets. Ink is butanol based. Alcohol(isopropil) and butanol are used for cleaning of equipment. 2. Raw material used or processed: Unit/Unit Quantity Туре Time 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Exhaust Efficiency Temp. Veloc. Height Diam. Type % by wt. ft. 8 in.amb. er none sec. ft/ ft. ____in. __ 5. Volume of discharge of emissions: 400 cu. ft./min. Usage Actual __Estimated_- Based on ___ Duration (time/unit time) Quantity (wt./unit time) Type of Pollutant 20 hrs/week 4130 lbs/yr Ink Solvent 5 % solution .7893 g/ml. 7. Attach process flow diagram (block type) showing points, amounts and types of emissions. Emissions from combustion 1. Combustion equipment: BTU/hr. Type % Sulfur or Lbs./hr. Gals./hr. 2. Fuel: Type 4. Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Exhaust Efficiency Veloc. Diam. Temp. Height % by wt. Type ft/ in. PF sec. ft/ in. _____eF sec. Emissions from incineration or waste disposal 1. Method for disposal of wastes: lbs/ day Quantity ___ 2. Wastes: Type _ lbs/ day 3. Incinerator: _ Capacity Trade Mark ft/ ft. Exh. Diam. _in. 4. Chimney or stack: Exh. lemp. Height or Lbs./hr. % Sulfur 5. Auxiliary fuel: ___ Gals./hr. 7. by wt. 6. Centrol equipment: __ Efficiency Compliance: Attach data or information showing that emissions will not exceed the established limits. IV. Control Equipment: Attach sketch of any control equipment installation at the emission source. CERTIFICATION BY AN ENGINEER OR A CHEMIST I Certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipment and measures for the control of the emission are adequate and comply with the provisions of the Air Pollution Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief, the above information is true, complete and accurate. Carlos A. Acevedo 695**9** Signature Name (Typed) License Number Application Number Date

	ality			=======================================	:=======	========	========	*****		===
<b>T</b>		strial Emissions								
-					in compose	daante				
1	1. I	Describe process or Part wachin		at emits atmospher ont with ext			Locate	ed at	shop.	
	_	I di C Wasilli	ig equipme	. WILL CAU						
	-									
			<u></u>				por 600			
2	2. R	Raw material used o	or processed:	Degreaser Type			55 Quantity	unga, gunnannungaga	gals/y	_
				Type			(		Time	
3	3. C	ontrol equipment f	or emissions:		4.	Chimneys	or stack	s:		
			Efficien <b>cy</b>				Exhaust	Exhaus		
		Type	% by wt.			Height 27 c.	Diam.	Temp.		•
	_	none	6			ft.	`i	a. =====	_ EF	
			- Value		·	ft.	i	ı		
_				400		£4 /_:_				
5	. V	olume of discharge	of emissions:	F-10000000		. ft./min.				
6	. E	missions: Act	ual Estima	ted - Based on	uegr	<u>easer</u>	losses			**
		Type of Polluta	ant	Quantity (wt./	unit time)	<u>.</u>	Duration	(time/u	nit time)	
	9	solvent		120 #/	yr			n/a	•	
	-									
							<u></u>			
7.	. At	ttach process flow	diagram (block	k type) showing p	oints, amo	unts and	types of	emission	s.	
<u>Επ</u>	nissi	ions from combustic	<u>on</u>							
1.	. Cc	ombustion equipment	• • • • • • • • • • • • • • • • • • • •			מת	U/hr.	or _	Horsepower	
				Туре		DI			nor seponer	
2.	. Fu	iel:	Type	<u>G</u>	als./hr.	or <u>Lbs</u>	./hr.	% Sulfur		
					gganning-gann-mandish-prod	to the second second	-			
						-				
3.	. <b>C</b> o	ontrol equipment fo		4. Ch	imneys or		- Eschar	uct I	?vhquat	
3.	. <b>C</b> o		Efficiency		imneys or	stacks: Exhaus Diam.	_		Exhaust Veloc.	
3.	. <b>C</b> o	ontrol equipment fo			-	Exhaus	Tem	D	Veloc. ft/	
3.	. <b>C</b> o		Efficiency		-	Exhaus Diam.		D	Veloc.	
3.	. <b>C</b> o		Efficiency		Height	Exhaus Diam.	Tem	2.F	Veloc. ft/ sec.	
3.	. <b>C</b> o		Efficiency		Height ft.	Exhaus Diam.	Tem	2.F	ft/ sec. ft/	
			Efficiency % by wt.	-	Height ft.	Exhaus Diam.	Tem	2.F	ft/ sec. ft/	
. <u>E</u>	miss	Туре	Efficiency % by wt.	disposal	Height ft.	Exhaus Diam.	Tem	2.F	ft/ sec. ft/ sec.	s /
. <u>E</u>	imiss M	Type  ions from incinera  ethod for disposal	Efficiency % by wt.  tion or waste of wastes:	dispos <b>al</b>	Height ft.	Exhaus Diam.	Tem	er er	ft/sec. ft/sec.	
• <u>E</u> 1 2	imiss M	Type  ions from incinera  ethod for disposal  astes: Type	Efficiency % by wt.  tion or waste of wastes:	disposal	Height ft.	Exhaus Diam.	Tempinin	er er	ft/sec. ft/sec.  ft/a	y s/
• <u>E</u> 1 2	imiss M	Type  ions from incinera  ethod for disposal	Efficiency % by wt.  tion or waste of wastes:	dispos <b>al</b>	Height ft.	Exhaus Diam.	Tempinin	er er	ft/sec. ft/sec. ft/sec. lb_da lb_da lb_da	y s/ y
• <u>E</u> 1 2	emiss M	Type  ions from incinera ethod for disposal astes: Type	Efficiency % by wt.  tion or waste of wastes:	disposal_	Height ft.	Exhaus Diam.  Quantity  de Mark	Tempinin	2F2F	ft/sec. ft/sec. ft/sec. lb_da lb_da ity f	y s/ y
• <u>E</u> 1 2	emiss M	Type  ions from incinera  ethod for disposal  astes: Type	Efficiency % by wt.  tion or waste of wastes:	disposal	Height ft. ft.	Exhaus Diam.  Quantity  ie Mark	Tempinin	capac	ft/sec. ft/sec. ft/sec. lb_da lb_da ity f	y s/ y
. <u>E</u> 1 2 3	Cmiss M	Type  ions from incinera ethod for disposal astes: Type ncinerator: himney or stack:	Efficiency % by wt.  tion or waste  of wastes:  Type  Height	disposal ft.	ft.  ft.  Trac	Exhaus Diam.  Quantity  ie Mark  Exh	inin	Capac	tt/ sec. ft/ sec. ft/ sec. ft/ sec. ft/ sec.	y s/ y t/ ec
. <u>E</u> 1 2 3 4	M	Type  ions from incineral lethod for disposal lastes: Type ncinerator: himney or stack:	Efficiency % by wt.  tion or waste  of wastes:  Type  Height	disposal  ft.  Exh. Dis	ft.  ft.  Trac	Exhaus Diam.  Quantity  ie Mark	inin	capac	tt/ sec. ft/ sec. ft/ sec. ft/ sec.  1b da lb da ity f sxh. Vel.	y s/ y ec.
. <u>E</u> 1 2 3 4	M	Type  ions from incineral lethod for disposal lastes: Type ncinerator: himney or stack:	Efficiency % by wt.  tion or waste  of wastes:  Type  Height	disposal  ft.  Exh. Dis	ft.  ft.  Trac	Exhaus Diam.  Quantity  ie Mark  Exh.	inin	Capac	tt/ sec. ft/ sec. ft/ sec. ft/ sec. ft/ sec.	y s/ y ec.
• <u>E</u> 1 2 3 4		Type  ions from incineral lethod for disposal lastes: Type	Efficiency % by wt.  tion or waste of wastes:  Type  Height  Type	ft. Exh. Dis	ft.  ft.  Trac  in.  Gals	Quantity  ie Mark  Exh.	inininoriciency	Capac	ty fxh. Vel.  ft/ sec. ft/ sec.  ft/ sec.  2 Sul. % by wt	y s/y ec.
• <u>E</u> 1 2 3 4 5 6	M	ions from incineral ethod for disposal astes: Type ncinerator: himney or stack: uxiliary fuel: ontrol equipment: iance: Attach datach fauipment:	Efficiency % by wt.  tion or waste  of wastes:  Type  Height  Type  Type  a or informati	ft. Exh. Dis	Trace in Gals	Quantity  Quantity  ie Mark  Exh.  S./hr.	inininoriciency	Capace of E	lb da lb da ity f sxh. Vel. % by wt shed limits	y s/y ec.
. <u>E</u> 1 2 3 4 5 6	M	Type  ions from incineral lethod for disposal lastes: Type	Efficiency % by wt.  tion or waste  of wastes:  Type  Height  Type  Type  Type  a or informatical ach sketch of	ft. Exh. Discovery on showing that early control equip	Trac  in  Gals  emissions v	Quantity  Quantity  ie Mark  Exh.  S./hr.	inininoriciency	Capace of E	lb da lb da ity f sxh. Vel. % by wt shed limits	y s/ y ec.
. <u>E</u> 1 2 3 4 5 6 . <u>C.</u>	. M. C. C. A. C. Compl	Type  ions from incineral lethod for disposal lastes: Type	Efficiency % by wt.  tion or waste of wastes:  Type  Height  Type  Type  CERTIFIC	ft. Exh. Disce on showing that early control equiparts.	Trace in Gals	Quantity  Quantity  de Mark  Exh.  S./hr.  Efficient exists of the mark of the mark  Exh.  Exh.	inininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininin.	Capace F E	lb da lb da sity f Sxh. Vel. 2 Sul. 2 Sul. 2 Sul. 2 Sul. 2 Sul. 3	y s/ y ec. fur
. <u>E</u> 1 2 3 4 5 6 . <u>Cc</u>	. M. C. C. A. C. Compl.	ions from incineral ethod for disposal astes: Type	Type  Height Type  Type  CERTIFIC red and author:	ft. Exh. Disconnections are adequate	Trace in Gals  emissions we oment instance.  TER OR A Comp profes and comply	Quantity  Quantity  de Mark  Exh.  S./hr.  Effection and Period on Period of the park  sion in Period of the park  with the	ininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininin.	Capace F E E E E E E E E E E E E E E E E E E	the equipment of the control of the equipment of the equipment of the control of the control of the equipment of the equipmen	y s/y ec. fur
. E 2 3 4 4 5 6 . C. Certand me	. M. C. C. A. C. Complete of restriction of restric	ions from incineral lethod for disposal lastes: Type ncinerator: himney or stack: uxiliary fuel: ontrol equipment: fance: Attach data of Equipment: Attach data of Equipment: Attach data of Equipment: Attach data of Equipment for the control equipment of the Ferral Control equipment of	Type	ft.  Exn. Discovered any control equiparts.  ATION BY AN ENGINATION BY AN ENGINATION are adequate vironmental Quali	Trace in Gals  Emissions we ment instance in Gals  WEER OR A Comp profess and comply ty board a	Quantity  Quantity  de Mark  Exh.  S./hr.  Effection and Period on Period of the park  sion in Period of the park  with the	ininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininin.	Capace F E E E E E E E E E E E E E E E E E E	the equipment of the control of the equipment of the equipment of the control of the control of the equipment of the equipmen	y s/y ec.
. E 2 3 4 4 5 6 . C. Certand me	. M. C. C. A. C. Complete of restriction of restric	ions from incineral ethod for disposal astes: Type	Type	ft.  Exn. Discovered any control equiparts.  ATION BY AN ENGINATION BY AN ENGINATION are adequate vironmental Quali	Trace in Gals  Emissions we ment instance in Gals  WEER OR A Comp profess and comply ty board a	Quantity  Quantity  de Mark  Exh.  S./hr.  Effection and Period on Period of the park  sion in Period of the park  with the	ininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininin.	Capace F E E E E E E E E E E E E E E E E E E	the equipment of the control of the equipment of the equipment of the control of the control of the equipment of the equipmen	y s/y ec.
. E  1  2  3  4  5  6  . C.  Certand mediontropelief	. M. C. C. A. C. Compl. reify reasured for the	ions from incineral lethod for disposal lastes: Type ncinerator: himney or stack: uxiliary fuel: ontrol equipment: fance: Attach data of Equipment: Attach data of Equipment: Attach data of Equipment: Attach data of Equipment for the control equipment of the Ferral Control equipment of	Type  Type  Height  Type  Type  CERTIFIC ced and author: of the emiss: con is true,	ft.  Exn. Discovered any control equiparts.  ATION BY AN ENGINATION BY AN ENGINATION are adequate vironmental Quali	Trace in Gals  Emissions we ment instance in Gals  WEER OR A Comp profession comply ty board atte.	Quantity  Quantity  de Mark  Exh.  S./hr.  Effection and Period on Period of the park  sion in Period of the park  with the	ininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininininin.	Capace 2F E E E E E E E E E E E E E E E E E E	the equipment of the control of the equipment of the equipment of the control of the control of the equipment of the equipmen	y s/y ec.

Quality Board · PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION	-=====
I. Industrial Emissions	
<ol> <li>Describe process or operation that emits atmospheric contaminants.</li> <li>During storage, handling and processing, the powder mixtures</li> </ol>	<u>ar</u> e
During storage, handling and processing	ma-
lost in small amounts. The powder scattered around the processing	stem
chines, the employees clothes and the floor. A vacuum cleaner sy is available at those places to collect the scattered dust.	
2. Raw material used of processed. Quantity Unit/of	
7 £ £	e
3. Control equipment for emissions:  4. Chimneys or stacks:  Exhaust Exhaust Exhaust	,
Efficiency Height Diam. Temp. Veloc	<u>.                                    </u>
Type 7 by Wt.	ft/ 84 <del>9e</del> c
Bag filter 30%	ft/
ftinff	sec
5. Volume of discharge of emissions: 2200 cu. ft./min.	
. material balance (adjusted)	
of the state of th	
Type of Pollutant Quantity (WE., Chil	
Drug Powder 6.5 x 10 ⁻² #/hr.	
7. Attach process flow diagram (block type) showing points, amounts and types of emissions.	
I. Emissions from combustion oror	
1. Combustion equipment: BTU/hr. Horsepowe	er
Gals./hr. or Lbs./hr. 7. Sulfur	
2. Fuel: Type	
4. Chimneys or stacks:	
3. Control equipment for emissions.  Exhaust Exhaust Exhaust Valor	
Efficiency Height Diam. Temp. Veloc. Type % by wt. Height Diam. Temp. ft,	,
fr in °F se	c.
ftinft	•
for inciparation or waste disposal	
II. Emissions from incineration or waste disposal	11-1
1. Method for disposal of wastes.	lbs/ day
2. Wastes: Type	lbs/ day
	ft/
3. Incinerator: Trade Mark Capacity	_sec.
Type 2F	
Type  Type  in	
Type  1	
Type  4. Chimney or stack:    ft. in.	ulfur
Type  Type  4. Chimney or stack:    Height   Exh. Diam.   Exh. Temp.   Exh. Vel.	ulfur wt.
Type  4. Chimney or stack:    ft. in. Exh. Temp. Exh. Vel.	ulfur wt.
Type  4. Chimney or stack:    ft.   in.   Exh. Temp.   Exh. Vel.	ulfur wt.
Type  4. Chimney or stack:    ft.   in.   Exh. Temp.   Exh. Vel.	ulfur wt.
Type  4. Chimney or stack:  ft.  ft.  Exh. Diam.  Fxh. Temp.  or  Joye  6. Control equipment:  Type  Type  Compliance: Attach data or information showing that emissions will not exceed the established lime.  V. Control Equipment: Attach sketch of any control equipment installation at the emission source.  CERTIFICATION BY AN ENGINEER OR A CHEMIST  CERTIFICATION BY AN ENGINEER OR A CHEMIST	ulfur wt.
Type  4. Chimney or stack:    ft.   in.   Exh. Temp.   Exh. Vel.	ulfur wt. wits. pment
Type  4. Chimney or stack:    ft.   in.   Exh. Temp.   Exh. Vel.	ulfur wt. dits.
Type  4. Chimney or stack:    ft.   fn.   Exh. Temp.   Exh. Vel.	ulfur wt. dits.
Type  4. Chimney or stack:    ft.	ulfur wt. dits.
Type  4. Chimney or stack:    ft.   ft.   ft.   ft.   Exh. Temp.   Exh. Vel.	ulfur wt. wits. pment

### OPERATION OF EMISSION SOURCES IN PUERTO RICO

Environmental. Quality Board - PART II - PLANT PROCESS AND EMISSIONS DESCRIPTION I. Industrial Emissions 1. Describe process or operation that emits atmospheric contaminants. During storage, handling and processing the powder mixtures are lost in small amounts. The powder scattered around the processing machines, the employees clothes and the floor. A vacuum cleaner system is available at those places to collect the scattered dust 0.22 #/hr. Unit/Unit Quantity Time 4. Chimneys or stacks: Control equipment for emissions: Exhaust Exhaust Efficiency Veloc. Temp. Diam. Height % by wt. Type in. amb. er 93.3 sec. 98% Bag filter 5. Volume of discharge of emissions: 1100 Estimated - Based on Materials balance (Adjusted). Actual 6. Emissions: Duration (time/Unit time) Quantity (wt./unit time) Type of Pollutant  $4.42 \times 10^{-3} \#/hr$ . 16 hrs./day Drug Powder 7. Attach process flow diagram (block type) showing points, amounts and types of emissions. II. Emissions from combustion Horsepower 1. Combustion equipment: _ BTU/hr. Type % Sulfur Lbs./hr. Gals./hr. Type 2. Fuel: Chimneys or stacks: 3. Control equipment for emissions: Exhaust Exhaust Exhaust Efficiency Veloc. Temp. Diam. Height % by wt. **Type** ft/ sec. __ ft. _____in. _ __ ft. _____in. ____eF Emissions from incineration or waste disposal III. 1. Method for disposal of wastes: dav Quantity lbs/ 2. Wastes: Type day Incinerator: _ Capacity Trade Mark 4. Chimney or stack: Exh. Temp. Exh. Diam. Height Z Sulfur 5. Auxiliary fuel: __ Gals./hr. Efficiency 6. Control equipment: Type Compliance: Attach data or information showing that emissions will not exceed the established limits. Control Equipment: Attach sketch of any control equipment installation at the emission source. CERTIFICATION BY AN ENGINEER OR A CHEMIST I Certify that I am registered and authorized to practices my profession in Puerto Rico; that the equipment and measures for the control of the emission are adequate and comply with the provisions of the Air Pollution Control regulations of the Puerto Rico Environmental Quality Board and that, to the best of my knowledge and belief, the above information is true complete and accurate belief, the above information is true, complete and accurate. Carlos A. Acevedo C 6959 Signature ... Name (Typed) License Number Application Number

OWMONWEALTH OF PUERTO RICO / OF L

### STELLISTED FIR APPRIVAL FOR THE CONSTRUCTION OR

OFFIATION OF THISSION SOURCES IN PUERTO RICO

1	Induse	rial Emissic	ons					
_				٠ د مواه		aminanta		
1	L. De		ess or operation eutical Table			aminants.		
		1 14GI IIIGCC					<del></del>	
							m Sharry	and the second s
2.	. Rau	s material u	sed or processed		ched List			***************************************
				Туре		Quant	tity	Unit/Unit Time
3.	. Con	i <b>trol e</b> quipme	ent for emissions		4.	Chimneys or a	itacke•	
		<b> </b>	Efficiency	- •	4.	Exha		st Exhaust
		Type	2 by wt.	•			зиа. Тетр	. Veloc.
	Car	rbon Abso	rption 97			_15_ft1	0 in. 95°	_ _{2F} 92 s
							in.	f s
	_				•			5
5.	Volu	ume of disch	narge of emission	s: <u>3000</u>	CI	u. ft./min.		
6.	Emis	ssions:	Actual Esti	mated - Rased o	n 8 hour	shift		
		Type of Po			wt./unit time		ation (time/u	nit time)
	Me	thylene (		3.0 liters			ours / day	
			-			Commence of the Commence of th		
	SD	30 Alcoh	nol	3.0 liters	/ day	8 hc	ours / day	
7	Atta	ch process	flow diagram (1)					
Emi	ssion	ich process i is from combi	flow diagram (ble ustion	тск суре) showii	ng points, am	counts and types	s or emission:	s. See Atta ment.
						•	or	
ı.	COMD	ustion equip	pment:	Type		ETU/hr.		Horsepower
2	Fuel		Two	-	Gals./hr.	or Lbs./hr.	% Sulfur	
<b>4.</b> 9		•	Type		Gais./Hr.	UI DUS./III.	,,	
					***************************************	Secretary in the last of the l		
	_							
3.	Conti	rol equipmen	nt for emissions:		Chimneys or	stacks:		
3.	Conti	rol equipmen	nt for emissions: Efficiency	4.	Chimneys or		Exhaust E	:xhaust
3.		rol equipmen		4.	Chimneys or			xhaust Veloc.
3.		_	Efficiency	4.	Height	Exhaust Diam.	Temp.	Veloc. ft/
3.		_	Efficiency	4.	•	Exhaust Diam.	Temp.	ft/ sec. ft/
3.		_	Efficiency	4.	Height	Exhaust Diam.	Temp.	Veloc. ft/ sec.
		Туре	Efficiency % hv vt.		<u>Height</u>	Exhaust Diam.	Temp.	ft/ sec. ft/
Emi	ission	Type	Efficiency % hv vt.	e disposal	<u>Height</u> ft.	Exhaust Diam. in.	Temp.	ft/ sec. ft/
Emi	ission	Type	Efficiency % hv vt.	e disposal	<u>Height</u> ft.	Exhaust Diam. in.	Temp.	ft/ sec. ft/
Emi	ission Meth	Type  ns from in	Efficiency % hv vt.	e disposal Recycled i	Heightftft.	Exhaust Diam. in. or recovery	Temp.	ft/ sec. ft/ sec. ft/ lbs/
Emi	ission Meth Wast	Type  ns from in	Efficiency % hv wt.  % hv wt.  www.piym or waste osal of wastes:	e disposal Recycled i	Heightftft.	Exhaust Diam. in. or recovery	Temp.	ft/ sec. ft/ sec.
Emi 1. 2.	ission Meth Wast	Type  ns from in the second for disperses: Type	Efficiency % hv vt.  **Example or waste  osal of wastes:  Methylene Ch	e disposal Recycled i	Height ft. ft. in Process Alcohol	Exhaust Diam. in. or recovery	Temp.	ft/ sec. ft/ sec. lbs/ day lbs/ day lbs/ day
Emi 1. 2.	ission Meth Wast Inci	Type  ns from in the second for disperses: Type	Efficiency % hv vt.  **X*********************************	e disposal Recycled i	Height ft. ft. in Process Alcohol	Exhaust Diam. in. in. Or recovery Quantity 6	Temp.  LF  LF  V  71  Capaci	Sec.
Emi 1. 2.	ission Meth Wast Inci	Type  as from in it  nod for disperses: Type  inerator:	Efficiency % hv vt.  **X*********************************	Recycled inloride, SD3	Height  ft.  ft.  In Process  Alcohol	Exhaust Diam. in. in. or recovery Quantity 6	Temp.  LF  LF  V  71  Capaci	ft/ sec.  ft/ sec.  ft/ day lbs/ day lbs/ day ity ft/
Emi 1. 2. 3.	ission Meth Wast Inci Chim	Type  as from in it  nod for disperses: Type  inerator:	Efficiency % hv vt. % hv vt.  EXXXXX or waste osal of wastes: Methylene Ch None Type k: Height None	Recycled inloride, SD3	Height  ft.  ft.  In Process  Alcohol  Trac  in  Diam.	Exhaust Diam. in. in.  or recovery Quantity 6	Temp.  PF  PF  Capaci	Veloc.  ft/ sec.  ft/ sec.  lbs/ day lbs/ dav  ity ft/ sec.  ch. Vel.
Emi 1. 2. 3.	ission Meth Wast Inci Chim	ns from in your nod for disposes: Type inerator:	Efficiency % hv vt. % hv vt.  EXEMPT OF Wastes:  Methylene Ch None Type k: Height None Type	Recycled inloride, SD3	Height  ft.  ft.  In Process  Alcohol  Trac  in  Diam.	Exhaust Diam. in. in. or recovery Quantity 6	Temp.  2F  Capaci	lbs/ sec.  lbs/ day lbs/ dav ity ft/ sec.  xh. Vcl.
Emi 1. 2. 3.	ission Meth Wast Inci Chim	Type  ns from incre  nod for disperses: Type inerator:  ney or stack	Efficiency % hv vt. % hv vt.  Example or waste  osal of wastes:  Methylene Ch  None  Type  k:  Height  None  Type  osal: Carbon Ab	Recycled inloride, SD3	Height  ft.  ft.  In Process  Alcohol  Trac  in  Diam.	Exhaust Diam. in. in.  or recovery Quantity 6	Temp.  LF  LF  Capaci  2F  Capaci  Lbs./hr.	tt/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ dav ity ft/ sec.
Emil. 2. 3. 4 5. 6.	ission Meth Wast Inci Chim Auxi Cont:	ns from in	Efficiency % hv vt. % hv vt.  None Type k: Height None Type at: Carbon Ab	Recycled inloride, SD3  ft. Exh.	Height  ft.  ft.  In Process  Alcohol  Train  Diam.  Gali	Exhaust Diam. in. in. or recovery Quantity 6 de Mark Exh. Temp	Temp.  LF  Capaci  F  Capaci  Lbs./hr.	lbs/ sec.  ft/ sec.  ft/ sec.  lbs/ day lbs/ dav  ity ft/ sec.  ch. Vcl.  Z Sulfur Z by wt.
1. 2. 3. 4 5. Com	ission Meth Wast Inci Chim Auxi Cont:	Type  as from in your and for disposes: Type inerator: aney or stack liary fuel: arol equipment ce: Attach	Efficiency % by wt. % by wt.  EXEMPT OF WASTES  STATE OF WASTES  Methylene Ch  None Type  k:  Height  None Type  out: Carbon Ab  Type  data or informat  Attach sketch of	ft.  Exh.  sorption  re  ion showing that	Height  ft.  ft.  In Process  Alcohol  Trac  in  Diam.  Gala  ot rmissions was a suitement insternations.	Exhaust Diam.  in.  in.  or recovery Quantity 6  de Mark  Exh. Temp  s /hr.  97  Efficien will not exceed	Temp.  LF  LF  Capaci  F  Lbs./hr.  Cy  the established comission sou	tt/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ dav ity ft/ sec. xh. Vcl.  Z Sulfur Z by wt.
1. 2. 3. 4 5. Com	ission Meth Wast Inci Chim Auxi Cont:	Type  as from in your and for disposes: Type inerator: aney or stack liary fuel: arol equipment ce: Attach	Efficiency % by vt. % by vt.  EXERCISE OF Wastes  osal of wastes: Methylene Ch  None Type k: Height None Type ot: Carbon Ab  Ty data or informat  Attach sketch of	ft.  Sorption  any control ed  any control ed	Height  ft.  ft.  In Process  O Alcohol  Trac  in Diam.  Gala  ot rmissions on unipment instances	Exhaust Diam. in. in. or recovery Quantity 6 de Mark Exh. Temp s /hr. 97 Efficien will not exceed allation at the	Temp.  LF  LF  V  71  Capaci  2F  Lbs./hr.  ccy the establis	tt/ sec. ft/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ dav ity ft/ sec. xh. Vel.  2 Sulfur Z by wt. shed limits
1. 2. 3. 4 5. 6. Con	Meth Wast Inci Chim Auxi Cont:	Type  as from incrit  and for disponent:  aney or stack  liary fuel:  rol equipment  ce: Attach  Equipment:	Efficiency % by wt. % by wt.  RECORDED OF Wastes: Methylene Ch None Type k: Height None Type at: Carbon Ab Ty data or informat Attach sketch of	ft.  Sorption  any control ed  any control ed  CATION BY AN EN	Height  ft.  ft.  in Process  30 Alcohol  Trac  in Diam.  Gala  out rmissions was a suipment instance in the control of the co	Exhaust Diam. in. in.  Or recovery Quantity 6  de Mark  Exh. Temp  s /hr.  97  Efficien will not exceed allation at the	Temp.  LF  LF  V  71  Capaci  2F  Lbs./hr.  ccy the establis cmission sou	tt/ sec. ft/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ dav ity ft/ sec. xh. Vcl. 2 Sulfur 2 by wt. shed limits cree See Atta
1. 2. 3. 4 5. Com	ission  Meth  Wast  Inci  Chim  Auxi  Cont:	Type  as from in xi  and for disposes: Type  inerator:  aney or stack  liary fuel:  rol equipment:  ce: Attach  Equipment:	Efficiency % by wt. % by wt.  EXEMPT OF WASTE  OSAL OF WASTES:  Methylene Ch  None Type  k: Height None Type  data or informat  Attach sketch of  CERTIFIC  Stored and authority of the code.	ft.  Exh.  Sorption  To showing that any control equation are adequated to practice the are adequated.	Height  ft.  ft.  ft.  In Process  30 Alcohol  Tracin  Diam.  Gala  ACLINEER OP A Cocces my profess  The and comply	Exhaust Diam.  in.  in.  or recovery Quantity 6  de Mark  Exh. Temp  s /hr.  97  Efficien will not exceed allation at the	Temp.  PF  PF  Capaci  2F  Lbs./hr.  cy  the establis  emission sou  Oxy  Rico; that the stablis of the	Ibs/ sec. ft/ sec. ft/ sec. ft/ sec.  Ibs/ day lbs/ dav ity ft/ sec.  X Sulfur Z by wt. Shed limits arce See Atta Catalyst I the equipment Air Pollution
Emi 1. 2. 3. 4 5. Con Con meas	ission  Meth  Wast  Inci  Chim  Auxi  Cont:  continued in the continued in	Type  as from jorgi  and for disponent:  aney or stack  liary fuel:  rol equipment:  at I am regis  for the constations of til	Efficiency % by wt. % by wt.  EXERCISE OF WASTES  METHYLENE CH None Type k: Height None Type data or informat Attach sketch of EFTIFIC Stered and authority of the Cuts he Puerto Rico Fr	ft.  Exh.  Sorption  The sorption  S	ft.  ft.  ft.  In Process  O Alcohol  Tracin  Diam.  Gal:  CINEER OP A Coces my profest to and comply ality Board of	Exhaust Diam.  in.  in.  or recovery Quantity 6  de Mark  Exh. Temp  s /hr.  97  Efficien will not exceed allation at the	Temp.  PF  PF  Capaci  2F  Lbs./hr.  cy  the establis  emission sou  Oxy  Rico; that the stablis of the	Ibs/ sec. ft/ sec. ft/ sec. ft/ sec.  Ibs/ day lbs/ dav ity ft/ sec.  X Sulfur Z by wt. Shed limits arce See Atta Catalyst I the equipment Air Pollution
Emi 1. 2. 3. 4 5. Con Con meas	ission  Meth  Wast  Inci  Chim  Auxi  Cont:  continued in the continued in	Type  as from jorgi  and for disponent:  aney or stack  liary fuel:  rol equipment:  at I am regis  for the constations of til	Efficiency % by wt. % by wt.  EXEMPT OF WASTE  OSAL OF WASTES:  Methylene Ch  None Type  k: Height None Type  data or informat  Attach sketch of  CERTIFIC  Stored and authority of the code.	ft.  Exh.  Sorption  The sorption  S	ft.  ft.  ft.  In Process  O Alcohol  Tracin  Diam.  Gal:  CINEER OP A Coces my profest to and comply ality Board of	Exhaust Diam.  in.  in.  or recovery Quantity 6  de Mark  Exh. Temp  s /hr.  97  Efficien will not exceed allation at the	Temp.  PF  PF  Capaci  2F  Lbs./hr.  cy  the establis  emission sou  Oxy  Rico; that the stablis of the	tt/ sec. ft/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ dav ity ft/ sec.  X Sulfur Z by wt. shed limits arce See Atta Catalyst D he equipment Air Pollution
Emil. 2. 3. 4 5. 6. Con measurol left. C	Meth Wast Inci Chim Auxi Cont: continue of the asures regul the a	Type  as from incy;  nod for disposes: Type  inerator:  aney or stack  liary fuel:  rol equipment:  at I am recis for the constations of tile	Efficiency % by wt. % by wt.  EXERCISE OF WASTES  COSAL OF WASTES:  Methylene Ch  None Type  R:  Height  None Type  Attach sketch of  CERTIFIC  Stered and authorited of the Cutse in Puerto Rico Frenchion is true, con	ft.  Exh.  Sorption  The sorption  S	Height  ft.  ft.  ft.  In Process  30 Alcohol  Traction  Diam.  Gal:  CINEER OP A Coces my profeste and comply ality Board and comply ality Board and correct.	Exhaust Diam.  in.  in.  or recovery Quantity 6  de Mark  Exh. Temp  s /hr.  97  Efficien will not exceed allation at the	Temp.  PF  PF  Capaci  2F  Lbs./hr.  cy  the establis  emission sou  Oxy  Rico; that the stablis of the	tt/ sec. ft/

# OPERATION OF EMISSION SOURCES IN PUERTO RICO

COMMONWEALTH OF FUERTO MICO / OFFICE OF THE

FUA	ironmental			=======================================	G-1 B	2
uaim	y Board ·	PART II - PLAN	T PROCESS AND EMISSI	ONS DESCRIPTION		
*====	estrial Emissions					
Indu	Describe process of	r operation that	emits atmospheric co	ontaminants.		
		See attache		-		
		ZEE accoon				A han /day
2.	Raw material used	or processed:	Cimetidine Type		00 kilos Quantity	4 hrs./day Unit/Unit Time
		E omigrions:		4. Chimneys	or stacks:	. E-bct
3.	Control equipment	Efficiency		Height	Exhaust Exhaust Diam. Temp	. Veloc.
	Туре	% by wt.	7 11.00	20 5		225 sec.
	Filter bag	See attached	letter		in.	,
two	<u>-(Glatt)</u>	from Glatt	4700.00	cu. ft./min		
5.	Volume of discharg		Service of the second s	Cu. Italian		
6.	Emissions: Ac	ctual Estimat	ed - Based on	· +imal	Duration (time	unit time)
	Type of Polls	<u>utant</u>	Quantity (wt./unit	/day	4 hrs./	
	Dust		or 0.36 lb			
	See attached A Greene's Repor	Arnold rt - Sample B		_	of emissi	ons.
7.	Attach process fl	ow diagram (block	type) showing point	ts, amounts and	types of emissi	-
Em:	issions from combus	tion		•	0	
1.	Combustion equipm	ent:	Туре	)	STU/hr.	
		•		./hr. or L	s./hr. % Sulf	ur
2.	Fuel:	Type				
	•			annie		
	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT			Managaran Managa	who have the state of the state	
	<u> </u>			_		
	. Control equipment	t for emissions:	4. Chimm	eys or stacks:	T1 \$	Exhaust
3.	. Control equipment	Efficiency	Hei	Exha ght <u>Di</u> a	Towns	Veloc.
	Type	% by wt.	England St. Co.		in - 9.)	ft/ sec.
			g-constant	ft	Annual Control of the	ft/
					in	
				ft.	S. S. S.	sec.
			_	ft		sec.
	Emissions from inci	lneration or waste	disposal .	ft		sec.
•	Emissions from inci					lbs/
	1. Method for disp	posal of wastes:			ity	lbs/ day lbs/
		posal of wastes:		Quant	ity	lbs/ day lbs/ day
	1. Method for disp	posal of wastes:			ity	lbs/ day lbs/ day apacity ft/
	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> </ol>	posal of wastes: Type	ft.	Quant Trade Mar	ityk	lbs/ day lbs/ day apacity ft/
	<ol> <li>Method for disp</li> <li>Wastes: Type</li> </ol>	posal of wastes: Type		Quant Trade Mar	k C Exh. Temp.	lbs/ day lbs/ day apacity ft/ sec. Exh. Vel.
	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> </ol>	Type  ack:  Height	ft.	Quant Trade Mar	k Exh. Temp.	lbs/ day lbs/ day apacity ft/ sec. Exh. Vel.
	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> <li>Chimney or sta</li> <li>Auxiliary fuel</li> </ol>	Type  ack: Height  Type	ft. Exh. Dian	Quant Trade Mar in. Cals./hr	k Exh. Temp.	lbs/ day lbs/ day apacity ft/ sec. Exh. Vel. 7hr. 7. Sulfur
	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> <li>Chimney or sta</li> <li>Auxiliary fuel</li> <li>Control equipm</li> </ol>	Type  ack: Height  Type  ment:	ft. Exh. Dian	Quant Trade Mar in. Gals./hr.	Exh. Temp.  or  Lbs  Efficiency not exceed the es	lbs/ day lbs/ day apacity  ft/ sec.  Exh. Vel.  7. Sulfur 7. by wt.
	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> <li>Chimney or sta</li> <li>Auxiliary fuel</li> <li>Control equipm</li> </ol>	Type  ack: Height  Type  ment:	ft. Exh. Dian	Quant Trade Mar in. Gals./hr.	Exh. Temp.  or  Lbs  Efficiency not exceed the es	lbs/ day lbs/ day apacity ft/ sec. Exh. Vel.  7 Sulfur 7 by wt. tablished limits.
v.	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> <li>Chimney or sta</li> <li>Auxiliary fuel</li> <li>Control equipm</li> <li>Compliance: Attac</li> <li>Control Equipment</li> </ol>	Type  ack: Height  Type  ment:  ch data or inform  Attach sketch	ft.  Exh. Dian  Type  Stion showing that exof any control equip	Quant Trade Mar in. Gals./hr. missions will ment installat	Exh. Temp.  or  Lbs  Efficiency  not exceed the es	lbs/ day lbs/ day spacity ft/ sec. Exh. Vel.  Thr. 7 Sulfur 7 by wt. tablished limits. on source.
v.	<ol> <li>Method for disp</li> <li>Wastes: Type</li> <li>Incinerator:</li> <li>Chimney or sta</li> <li>Auxiliary fuel</li> <li>Control equipm</li> <li>Compliance: Attac</li> <li>Control Equipment</li> </ol>	Type  ack: Height  Type  ment:  ch data or inform  Attach sketch of	ft. Exh. Dian  Type stion showing that exof any control equip	Quant Trade Mar in. Gals./hr. missions will ment installat EER OR A CHEMI	Exh. Temp.  or  Lbs  Efficiency  not exceed the es  ton at the emissi	Ibs/ day lbs/ day apacity ft/ sec. Exh. Vel.  Thr. 7 Sulfur 7 by wt.  tablished limits. on source.  that the equipment
V. V.	1. Method for disp 2. Wastes: Type 3. Incinerator: 4. Chimney or sta 5. Auxiliary fuel 6. Control equipm Compliance: Attac Control Equipment:	Type  ack: Height  Type  ch data or informs: Attach sketch control of the emiters:	ft.  Exh. Dian  Exh. Dian  fype  ation showing that exoremation are adequate  ission are adequate	Quant Trade Mar in.  Gals./hr.  missions will nument installat: EER OR A CHEMI my profession and comply with ty Board and th	Exh. Temp.  or  Lbs  Efficiency  not exceed the es  ton at the emissi	lbs/ day lbs/ day apacity ft/ sec. Exh. Vel.  Thr. 7 Sulfur 7 by wt. tablished limits. on source.
ιν. ν. Ι C	1. Method for disp 2. Wastes: Type 3. Incinerator: 4. Chimney or sta 5. Auxiliary fuel 6. Control equipm  Compliance: Attac  Control Equipment:  Certify that I am relations of the chirol regulations of the chirolator chirolato	Type  ack:  Height  Type  hent:  CERTI  egistered and auth control of the emi f the Puerto Rico ormation is true,	ft.  Exh. Diam  Exh. Diam  fype  ation showing that exit of any control equiparts  FICATION BY AN ENGING  thorized to practices ission are adequate in the complete and accurate the complete and accurate in the complete and accurate the complete the com	Quant Trade Mar in. Gals./hr. missions will r ment installat EER OR A CHEMI my profession and comply with ty Board and the	Exh. Temp.  or  Ibs  Efficiency  not exceed the es  lon at the emissi  st  in Puerto Rico;  the provisions  at, to the best	Ibs/day lbs/day lbs/day apacity ft/ sec. Exh. Vel.  Thr. 7. Sulfur 7. by wt.  tablished limits. on source. that the equipment of the Air Pollutiof my knowledge ar
ιν. ν. Ι C	1. Method for disp 2. Wastes: Type 3. Incinerator: 4. Chimney or sta 5. Auxiliary fuel 6. Control equipm Compliance: Attac Control Equipment:	Type  ack:  Height  Type  hent:  CERTI  egistered and auth control of the emi f the Puerto Rico ormation is true,	ft.  Exh. Dian  Exh. Dian  fype  ation showing that exoremation are adequate  ission are adequate	Quant Trade Mar in.  Gals./hr.  missions will a ment installat EER OR A CHEMI my profession and comply with ty Board and the.	Exh. Temp.  or  Lbs  Efficiency  not exceed the es  ton at the emissi	Ibs/day lbs/day lbs/day apacity ft/ sec. Exh. Vel.  Thr. 7. Sulfur 7. by wt.  tablished limits. on source. that the equipment of the Air Pollutiof my knowledge ar

### I Industrial Emissions

1. Describe process or operation that emits atmospheric contaminants.

Cimetidine, an ulcer treatment compound, is submitted to the process described below:

The Glatt WSG 300 Fluid Bed Granulator, oprates on an air fluidization and liquid spray principal. As such, it can accomplish the operations of mixing, granulating and drying. It consists essentially, of a product filter housing, an expansion chamber and a product container. Its operation is as follows:

Outside air enters through prefilters (80u), heating coils and Hepa filters (0.3u). The filtered air then passes through a 100 mesh screen, located at the bottom of the product container and into the product container where it comes in contact with the product, causing the powder to fluidize. The product filter (5u), located at the top of the expansion chamber, retains the product while allowing the air to pass through to an outlet flap and into the atmosphere. By means of a liquid spray nozzle located in the expansion chamber, the product may be granulated with a suitable solution at some predetermined time and then dried. It should be noted that the purpose of the product filter is soley to retain the powders in the Glatt units.

It is estimated that about 5% of the material processed will be in contact with the product filter (5u).

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-	ustrial Emissions			. ,			
	Describe process o	A onerstion the	r emits atmos	nheric conta	minants.		
		line Powder				nd) is r	nixed with
	edible non-d				•		
			*	•			
2.	Raw material used	or processed:	Collected Type	d dust		#/hr. ntity	Unit/Unit Time
3.	Control equipment	for emissions:		4.	Chimneys or	stacks:	
	27 A	Efficiency Z by wt.					mp. Veloc.
	<u>Type</u> Torit	99.75				.5×185	
		33.75					
E	Baghouse	ACCUSE TO THE REAL PROPERTY OF THE PROPERTY OF		_	ft	in	YF
5.	Volume of discharge	e of emissions:	9300	cu	. ft./min.	•	
6.	Emissions: Act	tual Estimat	ted - Based on	_ materi	als bala	ince	
	Type of Pollut	ant	Quantity (w	rt./unit time	) D:	ration (time	e/unit time)
	Cimetidine d		1.25 x 10		-	hrs./da	
	Cimetioine C	USL	1.EU A 10	<del>47/111 0</del>	And the second s		
	Attach process flow		c type) showing	g points, ama	ounts and typ	es of emissi	ions.
	Combustion equipmen						or
1. '	commission edarbases	130: 8	Туре		BTU/h	r.	Horsepower
2.	Fuel:	Туре		Gals./hr.	or Lbs./h	r. Z Suli	<u>fur</u>
	-		<del></del>	Manufactus - The damped conventioning			
			programme regulation representation of the programme of t		·		normal and a second a second and a second an
3. (	Control equipment f	or emissions:	4.	Chimneys or	stacks:		
30		Efficiency			Exhaust	Exhaust	Exhaust Veloc.
	Type	Z by wt.		<u>Height</u>	Diam.	Temp.	<u></u>
				ft.	, <u> </u>	n a.F	sec.
-				ft.	1	ne,	ft/ sec.
		,•			•		
<u>Emi</u>	ssions from inciner	ation or waste	disposal				
1.	Method for disposa	l of wastes:					1bs/
2.	Wastes: Type			•	Quantity		day
2.			,				lbs/ day
3.	Incinerator:	Type	Access of the second se	Tra	de Mark	Ca	pacity ft/
4.	Chimney or stack:	Beight	ft	Diam.	Exh. T	emp.	Exh. Vel.
5.	Auxiliary fuel:	-				or	r. 7 Sulfu
٠.		Туре		Gal	s./hr.	Lbs./h	r. Z Sultu Z by wt.
6.	Control equipment:	Typ	·e		Effic	-	
	pliance: Attach da	ta or informati	on showing the	at emissions	will not exc	eed the esta	blished limits.
Com	tral Fautament: At	tach sketch of	any control &	quipment inst	allation at	the emission	SOUTCE.
Com	tror Eduibment: we	105 E3100000 November and market	ATION BY AN E				
Cont	Till der der Tag terraft teit ditt der deprekries des der Tablica der delf 1997 1994	CERTIFIC	WIIW DI WI	MCTHEER ON W			
Cont Cont	fy that I am regists forces for the contro regulations of the the above informat:	ered and author ol of the emiss Puerto Rico En	ized to practi ion are adequa vironmental Qu	ices my profes ite and comply sality Board	ssion 'm Puer	cto Rico; the covisions of the best of	at the equipment the Air Polluti my knowledge an
Communication Control	fy that I am regist	ered and author: ol of the emiss: Puerto Rico En- ion is true, co	ized to practi ion are adequa vironmental Qu	ices my profe its and compli- mality Board ourste.	ssion 'm Puer	cto Rico; the rovisions of the best of Signature	at the equipment the Air Polluti my knowledge an

		nvironmental				2 <b>2</b> 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
	Qua	ulity Board -	· PART II -	PIANT PROCESS A	ND EMISSIONS	DESCRIPI	T-	182	,=ppinnnn
<b>l</b> , ,	I. <u>I</u> 1	ndustrial Emissions					978 AUG	9 111 :	) U-
ľ	1.	. Describe process	or operation t	hat emits atmos	pheric contan	ninants.			
		Drug powde	er and dust	is mixed wit	h the air.	The	powder and	l dust a	re
		collected	from the ai	r.					
	2.	Raw material used	or processed:	Drug Powder	and dust		0.65 #/hr		
				Туре			Quantity		Unit/Unit Time
	3.	Control equipment	for emissions		4.	Chimney	s or stacks:		
		· ·	Efficiency	•	7.	On Lucy .	Exhaust	Exhaust	Exhaust
•		Type	% by wt.			Height	Diam.	Temp.	Veloc. f
	(2	2) Torit	99.75		4	28_ft.	.24x12_in.	amb. ºF	50s
		Dust Collect	or		***************************************	ft.	in.	2F	s
	5.	Volume of dischar	ge of emissions	. 6000	Cu.	ft./min	ı_		
				**************************************		rials b			
	6.	~		ated - Based on			HANNON HANNESS PERSONAL SPECIAL S	-	*
		Type of Polls			./unit time)		Duration (		time)
		Drug Powder		16.25 x 10 ⁻⁴	' #/hr.		16 hrs	./day	
		•							
	7	Attack amount fla	m dinama (hla					· •	
II.		Attach process flo ssions from combust		ck type) snowing	points, amo	uncs and	types of em	issions.	
	1.	Combustion equipme	nt:					or	
		• •	6 ₇₋	Туре	anni mananan anna anna anna anna anna an	вт	U/hr.	Hor	sepower
	2.	Fuel:	Type		Gals./hr. ·	or <u>Lbs</u>	./hr. % 5	ulfur	
						*******			
		-							
		Water State Control of the Control o	angabitan anakan pagisa panasa pagisa na 197	and the second s	mggpmarkharaifpallitikithiatitikithist	***************************************	occasional experiments		
	3.	Control equipment	for emissions:	4. (	Chimneys or s				
		Туре	Efficiency % by wt.		77 - 4 - 5-0-	Exhaus		Exhau Velo	ıst
		and the same of th			Height	Diam.	A 11111 0		c.
			Water and the second se		***************************************	**************************************	nger		ft/
					ft.	Diam.	in	er	
					***************************************	**************************************	nger		ft/
· 11.	Emi	issions from incine		disposal	ft.	**************************************	in	er	ft/ sec. ft/
III.		issions from incine	ration or waste	disposal	ft.	**************************************	in	er	ft/ sec. ft/
II.		Method for dispose	ration or waste	disposal	ft.		in	er	ft/ sec. ft/ sec.
III.			ration or waste	disposal	ft.	**************************************	in	er	ft/ sec. ft/ sec.
III.	1.	Method for dispose	ration or waste	•	ft.		in	er	ft/ sec. ft/ sec. lbs/ day
III.	1. 2. 3.	Method for dispose Wastes: Type Incinerator:	ration or waste		ft.	Quantity	in.	er er	ft/ sec. ft/ sec.  lbs/ day lbs/
111.	1.	Method for dispose Wastes: Type	ration or waste	•	ftftft.	Quantity e Mark	in.	er er Capacity	ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec.
III.	1. 2. 3.	Method for dispose Wastes: Type Incinerator:	Type  Height	ft.	ft. ft.  Trade	Quantity e Mark Exh.	in. in. Temp.	Capacity  F Exh. 1	ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec.
111.	1. 2. 3.	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel:	Type  Type	ft.	ftftft.	Quantity e Mark Exh.	in. in. Temp.	Capacity  F Exh. 1	ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec. /el.
III.	1. 2. 3. 4.	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment:	Type  Type  Type  Type	ft. Exh. D	ft. ft.  Tradi	Quantity e Mark Exh.	in. in. Temp.  or Lbs.	Capacity F Exh. 1	ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec. /el.
	1. 2. 3. 4. 5. 6.	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment:	Type  Height  Type  Type	ft. Exh. D	ftftftftftft. Galsinininin.	Quantity e Mark  Exh.  /hr.  Eff	in. in.  Temp.  or  Lbs.  iciency  xceed the es	Capacity F Exh. V	ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec. /el.  Sulfur by wt. limits.
	1. 2. 3. 4. 5. 6.	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment:	Type  Height  Type  Type  Type	ft. Exh. D	ftftftftftftftftftft.	Quantity e Mark  Exh.  /hr.  Eff ill not e	Temp.  or  Lbs.  iciency  xceed the es	Capacity F Exh. V	ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec. /el.  Sulfur by wt. limits.
IV. V.	1. 2. 3. 4. 5. Com	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: coliance: Attach da trol Equipment: At	Type  Height  Type  Type  CERTIFIC	ft. Exh. D  e con showing that any control equ	ft.  ft.  ft.  ft.  Trade  in.  iam.  Gals  emissions with the stale of the stale o	Quantity  e Mark  Exh.  /hr.  Eff  ill not e	Temp.  or Lbs.  iciency xceed the est	Capacity  F Exh. 1  /hr. 2  tablished on source.	ft/ sec. ft/ sec.  lbs/ day lbs/ day  ft/ sec. /el.  Sulfur by wt. limits.
IV. V.	1. 2. 3. 4. 5. Com	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: coliance: Attach da trol Equipment: At	Type  Height  Type  Type  CERTIFIC	ft. Exh. D  oe on showing that any control equ  EATION BY AN ENG-	ft.  ft.  ft.  ft.  Trade  in.  iam.  Gals  emissions with the series of	Quantity  Exh.  Air.  Eff  Ill not e  Llation a  EMIST  ion in Pu	in.  in.  Temp.  or  Lbs.  iciency  xceed the est the emissi	Capacity  F Exh. V  /hr. Z  tablished on source.	ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ day ft/ sec. /el. limits. quipment
IV. V. I (	1. 2. 3. 4. 5. Com Con Con The control	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: coliance: Attach da trol Equipment: At  fy that I am registe sures for the control regulations of the	Type  Height  Type  Type  CERTIFIC  ered and author of the emiss Puerto Rico En	ft.  Exh. D  e. on showing that any control equence and the practice ion are adequate vironmental Qual	ft.  ft.  ft.  ft.  ft.  ft.	Quantity  Exh.  Ark  Esh.  In ote ellation a semistrion in Purith the	in.  in.  Temp.  or  Lbs.  iciency  xceed the est the emissi	Capacity  F Exh. V  /hr.  Z  tablished on source.	ft/ sec. ft/ sec. ft/ sec. lbs/ day lbs/ day ft/ sec. /el.  Sulfur by wt. limits. quipment Pollution
V. I (	1. 2. 3. 4. 5. Com Contil d meas	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: coliance: Attach da trol Equipment: At  fy that I am registe sures for the control regulations of the the above informat:	Type  Height  Type  Type  CERTIFIC ered and author of the emiss Puerto Rico En Ion is true, com	ft.  Exh. D  Second showing that any control equivalent and second are adequate vironmental Qual mplete and accur	ft.  ft.  ft.  ft.  ft.  ft.  ft.	Quantity  Exh.  Eff  Ill not e  lation a  EMIST  ion in Provith the a that, t	in.  in.  Temp.  or  Lbs.  iciency  xceed the est  the emissi  provisions  to the best	Capacity  F Exh. V  /hr.  Z  tablished on source.	ft/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec. /el.  Suliur by wt. limits.  quipment Pollution ledge and
IV. V. I (	1. 2. 3. 4. 5. Com Con Certif d meas ntrol lief, C6	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: coliance: Attach da trol Equipment: At fy that I am registe sures for the control regulations of the the above informat:	Type  Height  Type  Type  CERTIFIC ered and author of the emiss Puerto Rico En Ion is true, com	ft. Exh. D  ce con showing that any control equ  cation by an end ized to practice ion are adequate vironmental Qual mplete and accur  rlos A. Aceve	ft.  ft.  ft.  ft.  ft.  ft.  ft.	Quantity  Exh.  Eff  Ill not e  lation a  EMIST  ion in Provith the a that, t	in.  in.  in.  Temp.  or  Lbs.  iciency  xceed the est  the emissi  provisions  the best  Alician	Capacity  F Exh. V  /hr. Z  tablished on source.  that the exp the Air of my know	ft/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ day ft/ sec. /el.  Suliur by wt. limits.  quipment Pollution ledge and
IV. V. I (	1. 2. 3. 4. 5. 6. Com Con Contid d measntrol lief, C66	Method for dispose Wastes: Type Incinerator: Chimney or stack: Auxiliary fuel: Control equipment: coliance: Attach da trol Equipment: At  fy that I am registe sures for the control regulations of the the above informat:	Type  Height  Type  Type  CERTIFIC ered and author of the emiss Puerto Rico Enlon is true, co	ft.  Exh. D  e.  con showing that any control equ  EATION BY AN ENG- ized to practice ion are adequate vironmental Qual mplete and accur  rlos A. Aceve	ft.  ft.  ft.  ft.  ft.  ft.  ft.  ft.	Quantity  e Mark  Exh.  /hr.  Eff  Ill not e  lation a  EMIST  ion in Powith the a that, t	Temp.  Temp.  or  Lbs.  iciency  xceed the est  the emissi  provisions  the best  Signature	Capacity  F Exh. 1  /hr. 7  tablished on source.  that the ecountry  t	ft/ sec. ft/ sec. ft/ sec.  lbs/ day lbs/ day sec. /el.  Sulfur by wt. limits.  quipment Pollution ledge and



## ENVIRONMEN , QUALITY BOARD AIR POLLUTAN. EMISSION SUMMARY

SECTION |: GENERAL INFORMATION

lant, institution, or establishment name: Smith, Kline and French Lab. Co. (Carolina)
lant, institution, or establishment location: <u>Ceraémica Annex, Carolina, Puerto Rico</u>
768-1570 Person to contact regarding this report: <u>Carlos A. Acevedo</u> Title: <u>Staff Engineer</u> Tel: 739-8401
Sailing address: P.O. Box 1983 Carolina Puerto Rico 00630 (Street or Box Number) (City) (State) (Zip)
Approximate number of employees at plant, institution, or establishment location: //Less than 100/xx/100 or more.
Revation of plant, institution, or establishment in relationship to mean sea level: +/- 50 feet above mean sea level.
Information is representative of calendar year: 1978
Land area at plant location:acres. Enclose a sketch of layout if there is more than one building.
Plant location: (give neares cross streets, describe by landmarks or enclose a map, engineering drawing, or sketch)
Bldg. # , Cerámica Annex (Industrial Park) Carolina, Puerto Rico
Air pollutants of the type indicated in the instructions for the completion of this report, i.e., N/A  are not emitted at this plant, institution or establishment. Therefore, no other  Carlo A. Accordo (Signed) Staff Engineer (Title)
Please return all sections of this report to: <u>Ing. Edgardo Sotto</u> , <u>Junat de Calidad Ambiental</u> , <u>Apartado 11488</u> , <u>Santurce</u> , <u>P.R. 00910</u> Indicate the last codification number assigned by the EQB to your Application for Approval for the Construction or Operation of Emission Sources in Puerto Rico: <u>PFE</u>
Date Report Submitted:





### AIR POLLUTANT EMISSIONS SUMMARY

SECTION II: FUEL COMBUSTION FOR GENERATION OF HEAT, STEAM, AND POWER

lant, institution, or establishment name: Smith, Kline and French Lab. Co. (Ca	erolina)
Normal operating schedule for fuel use: 16 Hours per day 5 Days per week 52	_ Weeks per year 4, 160 Hours per year.
Dates of annually occurring shutdowns of operations: N/A	Additional operating information enclosed .

Source *.* Code	Number of Combustion Sourcess, (Boilers)	Size of Unit (Input) e.e 10°BTU/hr.	Type of Unit4.	Installation Date•	Percent Excess Air Used In Combustion (Design)	Power Output Megawattses
CBB-1	1	100 HP	Fired Tube		40%	_
C88-2	. 1	100 HP	Fired Tube		40%	
CB8-3	1	200 HP	Fired Tube	Terlang (Terlang - Constitution )	40%	
0EG-1	1	160 HP	Unan Electric Generator	dalan agalaga seren essan allas garen garen sprango en maga-pensor, en egipens	N/A	
CEG-1	. 1	900 HP	Cumming Electric Generator	riante trocción como con esta esta esta esta esta esta esta esta	N/A	
ODFP-1,2	s	119 HP	Vetroit Viesel Fire Pump	M-consisted flavour account for his decision has place in the agreement of the flavour flavour green	N/A	

- a. List a separate code number to represent each source (e.g., II-a, II-b, II-c, etc.), then enter the same code number and the required data on the continuation of this Section on Page 3, and in Sections V and VI.
- b. Multiple sources may be grouped if units are similar in size and type, burn the same fuel, or are vented to the same stack.
- c. Nameplate data are sufficient (give rated or maximum capacity, whichever is greater).
- d. Hand-fired, underfeed, overfeed, traveling-grate or spreader stoker; cyclone furnece; pulverized, wet or dry bottom with or without fly ash reinjection: rotary or gun type oil burner; etc.
- e. List separately future equipment and expected date of installation.
- f. Power generation only.

Date	Report	Submitted	
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#### AIR POLLUTANT LEASTONS SUMMARY

SECTION II: FUEL COMBUSTION FOR GENERATION OF HEAT, STEAM, AND POWER (CONTINUED)

Plant, institution, or establishment name: Smith, Kline and French Lab. Co. (Carolina)

Source Type of Fuelb		Annual Consumptions					Hourly Co	nsumption 4			Percent	Percent		
			Percent Distribution by Season					Percent	Heat	Delivered Cost of			Future	
	Quantitya Gals.	Spring March/ May	Summer June/ Aug.	Fall Sept./ Nov.	Winter Dec./ Febr.	Maximum	Average	Used for Space Heat			Ash (Solid Fuel Only)	Fuel \$/Quantity	Uses	
CBB-1	KERD	58240	25	25	25	25	21 Gal	14 Gal	N/A	135,000	0.7	N/A		
SBB-S	KERD	58240	25	25	25	25	21 Gal	14 Gal	N/A	135,000	0.7	N/A		_
CBB-3	KERO.	374,400	25	25	25	25	90 Gal	60 Gal	N/A	135,000	0.7	N/A		
DEG-1	DIES.	<b>2</b> 8	25	25	25	25	7 Gal	N/A	N/A	140,000	0.7	N/A	·	-
CEG-1	DIES.	168	25	25	25	25	42 Gal	N/A	N/A	140,000	0.7	N/A		***
DOFP-	DIES.	28	25	25	25	25	7 Gal	N/A	N/A	140,000	0.7	N/A		
DFP-	DIES.	. 28	25	25	25	25	7 Ga]	N/A	N/A	140,000	0.7	N/A		

- a. List code numbers corresponding to each source referred to on page 2, (e.g., II-a, II-b, II-c, etc.), then enter required data on this page, and for the same code number sources in Sections V and VI.
- b. Coke, bituminous coal, anthracite coal, lignite; No. 1, 2, 4, 5 and 6 fuel oil; natural gas; LPG; refinery or coke oven gas; residual coke; wood; bark; 'indge; etc. (Note: Indicate if two or more fuels are burned in the same boiler and provide all data pertinent to each fuel type.)
- c. Fuel data are to be reported on an "as burned" basis.
- d. Solid fuel, tons; liquid fuel, gallons; gaseous fuel, 1000 cubic feet.
- e. If unknown, please give name and address of fuel supplier.
- f. Sulfur and ash content for each fuel should be a weighted average.
- g. Estimated percent increase or decrease in fuel usage (by fuel type) per year for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately on page 2 and the expected fuel use on this page.

### THATRO MENTAL QUALITY ROARD

### AIR POLLUTANT EMISSIONS SUMMARY



### SECTION III: COMBUSTIBLE SOLID AND LIQUID WASTES DISPOSAL [Recycled Waste]

mbustibرد	le solid and	d liquid wa	stes dispose	d of an site, off sit						
Normal on Scusonal a	negener -site comb nd/or peak	retion mulion oper coperation	ating sched period: (Sp	o Section IV.)  ule: Hours per ecify) N/A operations: N/A			week 52	Weeks per yes	complete remainder ar 4, 160 Hours	per year.
Source	Waste Material			Installation	Hourly Burning Rate, lbs.		Auxiliary Fuel	Percent Excess		
Code	Type	Amount Per Years	Percent Combust- ible	Method of Disposald	Date	Average	Maximum	Useda	Air Used in Com- bustion (Design)	Future Disposali
TC-1	Methyl Chior-	- 2U6 Gal.	15	Regeneration	deat desc			N/A	N/A	N/A
9.9	SD 30 Alcoho	206	15	Regeneration			9000	N/A	N/A	N/A
000										
land the second		and a state of the				a				

- a. List a separate code number to represent each source (e.g., III-a, III-b, III-c, etc.), then enter required data on this page and for the same code number sources in Section V and VI.
- b. Rubbish, garbage, mixed garbage and rubbish, waste paper, wood chips or sawdust, etc.

Plant, institution, or establishment name: Smith, Kline and French Lab. Co. (Carolina)

- c. Tons, pounds, or gallons/year.
- d. Open burning dump; incinerator, single chamber; etc.
- e Indicate whether auxiliary fuel is used in incinerators and pit burning, and the amount.
- f. Estimated increase or decrease in combustible solid and liquid wastes disposal rate for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately

Date Report .	Submited:	
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#### AIR POLLUTANT EM. SIONS SUMMARY

#### SECTION IV: PROCESS/OPERATIONS EMISSIONS

Plant, institution, or establishment name: Smith, Kline	and French Lab. Co.	(Carolina)
Normal operating schedule: 16 Hours per day 5		
Seasonal and/or peak operation period: N/A		
Dates of annually occurring shutdowns of operations. N/A		Additional operating information enclosed .

	Processes or		Raw Materials. Used for Processes or Operations					uctse of Pro	Intermittent	Futurei In-		
	Operations Releasing	Date In- stallation		Quantity			į		Quar	ntity	Operation	crease or
Code.	Pollutants to the Atmos-	Went on Line	Type	Annual	Hourly Proc	ess Rate, lbs.	Туре	Annual Averages	Hourly Process Rate, lbs.		Only: Average Hours/week	Decrease in Process
pliereb.e.d	3		Averager	Design	Maximum			Design	Maximum	Rate		
C-1	Ceasing s		Cime- tidin	1 21 1	GEORG ANNES SAMPA	508	Cimeti- dine Tablets	428 T	ermaneatatembiopolipolipolipolipolipolipolipolipolipo	<b>20</b> 6	80	N/A
C-2	Mixing & Pressing		Giger	11 1	Office Code Code	5	Cimeti- dine Tablets	11 T	and	5	80	N/A
T-1	Mixing		Drug Powde	- 1.4 T	sono vide asse	0.65	Haw Materia	ls ^{1.4T}	4000	0.65	80	N/A
T-2	Mixing		Drug Powde	1	ente mas state	0.65	Haw aterial	s 1.4T	renderen er eine er ei	0.65	80	N/A
G-1	Glatt Granulato	H		115T	4000 6ndy tools 6000	221	Raw Material	115 T		221	50	N/A

- A List a separate code number to represent each source (e.g., IV-a, IV-b, IV-c, etc.) then enter required data on this page and for the same code number sources in Sections V and VI.
- b. Multiple sources may be grouped if similar in size and type.
- c. Sulfuric acid-contact; aluminum smelting-crucible furnace; cement manufacturing-dry process; etc.
- d. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and Carbon Monoxide.
- e. Sulfur burned; pig. foundry returns, or scrap aluminum melted; limestone, cement rock, clay, iron ore used; etc.
- f. Pounds, tons, gallons, barrels, etc.
- g. Sulfuric acid produced; aluminum ingots produced; cement produced; etc.
- h. For intermittent processes, indicate average number of hours per week of operation so that estimates of yearly emissions may be obtained.
- Estimated percent increuse or decrease in process rate on a total plant basis for the five years after the calendar year for which this report is completed. If increuse is due to new equipment, please list this equipment separately.

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#### AIR POLLUTANT EN SIONS SUMMARY

SECTION IV: PROCESS/OPERATIONS EMISSIONS

Plant, institution, or establishment name:	
Normal operating schedule:Hours per dayDays per week	Weeks per yearIlours per year.
Seasonal and/or peak operation period:	
Dates of annually occurring shutdowns of operations.	Additional operating information enclosed \(\sigma\).

Source	Processes or		Raw Ma	terials. Used	for Processes or Operations Products of Processes or Operations		ations	Intermittent	crease or			
	Operations Releasing	Date In- stallation	Quantity					Quantity		Operation		
Code	Pollutants to the Atmos-	Went on Line	Туре	Annual	Hourly Process Rate, lbs.		Туре	Annual Average	Hourly Process Rate, lbs.		,	Decrease in Process
	phereb.c.d	Bille		Averages	Design	Maximum		Bo	Design	Maximum	Hours/week	Rate
G-2	Glatt Granulator	G	Drying Mixing	g 115T		221	Raw Materia	115 T	6000	221	50	N/A
WE	Vool Washing		Sol- vent:	55Gal		-	Solvent	5 <b>-</b>	Stock		40	
PE	Tablet (4	þ	Solver	^t 250Ga			Solven	5	ecci .		50	nen e-mandelestation (nem est
							in our of the contraction of the					
							,					

- a List a separate code number to represent each source (e.g., IV-a, IV-b, IV-c, etc.) then enter required data on this page and for the same code number sources in Sections V and VI.
- b. Multiple sources may be grouped if similar in size and type.
- c. Sulfuric acid-contact; aluminum smelting-crucible furnace; cement manufacturing-dry process; etc.
- d. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and Carbon Monoxide.
- e. Sulfur burned; pig, foundry returns, or scrap aluminum melted; limestone, cement rock, clay, iron ore used; etc.
- f. Pounds, tons, gallons, barrels, etc.
- g. Sulfuric acid produced; aluminum ingots produced; cement produced; etc.
- h. For intermittent processes, indicate average number of hours per week of operation so that estimates of yearly emissions may be obtained.
- Estimated percent increuse or decrease in process rate on a total plant basis for the five years after the calendar year for which this report is completed. If increase is due to new equipment, please list this equipment separately.

### ENVIRONMENTAL QUALITY BOARD

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### AIR POLLUTANT EMISSIONS SUMMARY

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SECTION V: AIR CLEANING EQUIPMENT

Plant, institution, or establishment name:_ Smith, Kline and French Lab. Co. (Carolina)

Source Code.	Type of Air	Installation	Pollutant	Effic	iency.	Inlet Gas	Y-1-1 C	
	Cleaning Equipments,	Dates	Removed e, 4	Design Percent	Operating Percent	Temperature,	Inlet Gas Flow Rate, f CFM	Exit Gas Pressure, PSI
C-1	Torit Oust Collec-	nt	Oust	99.9		400		
C-5	Torit Baghouse					160	15,000	+ Ambient
			Dust	99.75	-	-5 amb.	9,300	+ ambient
T-1	Torit Dust Co- llecto		Oust	99.75				
T-2	Torit Dust Co- llector	nter Microson Processor (principles de la Microsophe Personal de la Constantina del Constantina de la Constantina de la Constantina del Constantina de la Co	Dust	99,75	on and a section of the section of t	-5 amb.	6,000	+ ambient
G-1	Glatt Filter Bac					-5 amb.	6,000	+ ambient
	<u>                                     </u>		Dust	N/A	-	124	4,700	+ ambient
3-2	Glatt Filter Bac		Dust	N/A				
VC-1				NA	_	124	4,700	+ ambient
* ~ ·	Vaccum Cleaner (Filter Bag)		Dust	98		ambient	2,200	+ ambient

- a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.
- b. Wet scrubber, electrostatic precipitator, fabric filter, etc.
- c. Please list future equipment separately.
  d. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and Carbon Monoxide.
  e. Give efficiency in terms of pollutant removed.
- f. At actual flow conditions.



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### AIR POLLUTANT EMISSIONS SUMMARY

SECTION V: AIR CLEANING EQUIPMENT

Plant, institution, or establishment name:
--------------------------------------------

Source	Type of Air	Installation	Pollutant Removed c.4	Efficiency.		Inlet Gas	Inlet Gas	Exit Gas
Code	Cleaning Equipments.	Date:		Design Percent	Operating Percent	Temperature,	Flow Rate,f CFM	Pressure, PSI
TC-1	Carbon Apsorption	1	Hydrocarbor	enny	97	105	3,000	+ ambient
WE	Extractor	_	Organic Solvents	606		ambient	400	+ ambient
PE	Extractor		Ink Solvents	electron and resistant construction of the con		ambient	400	+ ambient
AC-S	Vaccum Cleaner Filter Bag		Oust		AND SECRETARIAN AND AND AND AND AND AND AND AND AND A	ambient	1,100	+ ambient
water-granific approximation of the second								
mujodijumosili udama ilikalikanojnja pojet dva	,			-0000000000000000000000000000000000000				***
*unar@drinococcoggs.viguals.viguagas.pupus								

- a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.
- b. Wet scrubber, electrostatic precipitator, fabric filter, etc.
- c. Please list future equipment separately.
  d. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and Carbon Monoxide.
  c. Give efficiency in terms of pollutant removed.
- f. At actual flow conditions.

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## AIR POLLUTANT EMISSIONS SUMMARY

SECTION VI: STACK AND POLLUTANT EMISSIONS DATA

Plant, institution, or establishment name: Smith, Kline and French Lab. Co. (Carolina)

	STACK DATA						ESTIMATE OF POLLUTANT EMISSIONS.				
	**	Height Inside Above Diameter Grade at Top, ft. ft.				as Flow		Quantity			
Source	Above		Exit Gas Velocity, b T	Exit Gas Temperature,	Rate,	CFM:	Pollutanta -	Tons Per Year	Lbs. Per Hour		
			ft./sec.	op	Average		1		Average	Maximum	
CBB-1	53 '	11-411	1.89	350			Sulfur Dioxide	3.2	***	2.08	
CBB-S	(Stad	k above i	s common S	tack for C	3B-1 S	\$)		3.2		2.08	
CBB-3	50'	1'-4"	1.90	350			Sulfur Dioxide	18.6	-	8.95	
DEG-1	121	0'-4"		·	ing		Sulfur Dioxide	.002	ing	0.69	
CEG-1	15 '	0'-6"	212	950			Sulfur Dioxide	.008	-	2.78	
DOFP-1	12'	0'-4"			<b>(Can</b> )		Sulfur Dioxide	.002	ann angal ganna gill king kaga, ti in ilipilin na na napili maja	0.69	
DOFP-2	12'	0'-4"			minh		Sulfur Dioxide	.002	-	0.69	

- a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.
- b. Values should be representative of average flow conditions for hours of operation.
- c. At actual flow conditions.
- d. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and
- c. Give stack test data if available (indicate stack sampling method used), otherwise, specify basis used. If unknown, please do not complete these columns.

## ENVIRONMENTA: QUALITY BOARD

## AIR POLLUTANT EMISSIONS SUMMARY

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# SECTION VI: STACK AND POLLUTANT EMISSIONS DATA

Plant, institution, or establishment name:_

Source Heigh	Height					ESTIMATE OF POLLUTANT EMISSIONS.				
Code	Above Grade ft.	Grade at Top	ter Exit Gas	Exit Gas Temperature,	Exit Gas Flow Rate, CFM.			Quantity		
C 4		16.	· · · / see.	P.	Average	Maximum	Pollutanta	Tons Per Year	Lbs. Per Hour	
C-1	25	22"X19"	5,000	140	- 60	Maximum			Average	Mari
C-5	55	19.5"X18.	5''			15,000	Particulate	0.00059	80	Maximu
T-1	28	2'X 1'	62 50	+ ambient		9,300	Particulate		-	.000z
T-2	28	2'X 11		+ ambient	-	6,000	Particulate	0.0026		.0012
3-1	85		50	+ ambient	4904	6,000		0.00338	-	.0016
i-2		01-811	225	104			Particulate	0.00338		.0016
	S8	0'-8"	225	104		4,700	Particulate	0.19		
C-1	64	0'-8.5"	108	ACCORDING TO SECURITY OF THE PROPERTY OF THE P	ine	4,700	Particulate	0.19	444	0.36
ist and		A STATE OF THE PARTY OF THE PAR		source reported in	2000	2		0.1352		0.36

- b. Values should be representative of average flow conditions for hours of operation.
- d. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and
- e. Give stack test data if available (indicate stack sampling method used), otherwise, specify basis used. If unknown, please do not complete these columns.

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filant, institution, or establishment name:_

### AIR POLLUTANT EMISSIONS SUMMARY

SECTION VI: STACK AND POLLUTANT EMISSIONS DATA

			STACK DATA				ESTIMATE OF POLLUTANT EMISSIONS.				
			<u>ашибошибосносу клосоносу принименення укладину, под</u> ес	***************************************	Exit G	as Flow		Quantity			
Source	Height Above	Inside Diameter		Exit Gas Temperature, b	Rate, CFMe		75.11	Tons Per Year	ons Per Year Lbs. Per Hou		
	Grade ft.	at Top,			Average	Maximum	Pollutants	•	Average	Maximum	
TC-1	15	0'-10"	92	95	- majatiga mahangista magamatan kandida ,	3,000	Organic Solvents	0.06	and the second s	3.6×10	
WE	29	0'-10"	33	ambient	-	400	Organic Solvents	0.06	6×10 ⁻² .	9.6×10	
PE	29	0'-10"	33	ambient		400	Ink & Solvents	0.78	1.56	2.49	
TK-1	5'-6"	5 '	5000		4500	400a	Diesel[1,500 gal]Hydrocarbor	o.00335	5000	5004	
TK-2	underg	6'-4"		Priese - Marie (profit) general and distributed and distribute	-	seng 	Kerosene(6,000 gal)Hydrocarbons	0.088	-	5-0	
TK-3	underg	5'-4"	gra-		datah		Kerosene(3,000 gal)Hydrocarbons	0.044	-		
TK-4	10'-7"	7'-7"		COMP.	1000	the district of the state of th	Kerosene (10,000 gals.)	0.1464		_	

- a. List code numbers corresponding to each emissions source reported in Sections II, III, and IV.
- b. Values should be representative of average flow conditions for hours of operation.
- c. At actual flow conditions.
- 1. The Pollutants to be covered in this survey are: Particulate, Sulfur Dioxide, Nitrogen Oxides, Hydrocarbons, and Carbon Monoxide.
- c. Give stack test data if available (indicate stack sampling method used), otherwise, specify basis used. If unknown, please do not complete these columns.

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04		STOCK NO.				<u> </u>
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CATCH COVERS	-					
SLEEVES	-\ <del>`</del>	NAG IS	45 STOCK I	lun or oc		,
FOIL (SHEETS & ROLL	<del>▘▘</del> ┆┼┼┼		T	1	141: 750 (4)	
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PLASTIC SEPARATOR	11 1 1 1 1 1 1	85939.				<del> </del>
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202. GIASS		<u> </u>	<u>                                     </u>			<del> </del> ; .
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802.GLASS			<u> </u>		<del>                                     </del>	
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YELLOW STUPPERS		73054	<u>                                     </u>		<del> </del>	
WHITE STOPPEDS		73053	<u> </u>		- <del> </del>	
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Stock	ription .	Approved Manufacturer		Supplier
16910	Alcohol U.S.P.	P.R. Distillers U.S. Industrial Chem. Co.	(P.R.) (Phila)	P.R. Distillers U.S. Industrial Chem. Co.
16920	Alcohol S.D.#3A	P.R. Distillers	(P.R.)	P.R. Distillers
15003	Artificial Peach Flavor	Fermenich, Inc.	(P.R.)	Firmenich, Inc.
13195	Avicel PH 101 (Microcyrstalline Cellulose, N.F.)	F.M.C. Corp.	(P.R.)	F.M.C. Corp.
13703	Cimetidine	SK&F Labs. Penn Chemical	(P.R.) (PHL)	SK&F Labs., Guayama, P.R. Penn Chemical, Cork, Ireland
13704	Cimetidine Base	SK&F Labs Penn Chemical	(P.R.) (PHL)	SK&F Labs., Guayama, P.R. Penn Chemical, Cork, Ireland
13931	.Cosmetic Ochre (Kohnstamm #3506)	H. Kohnstamm & Co. (P.R.)	(PHL)	H. Kohnstamm & Co.
14383	Diethyl Phthalate	Eastman Chemical Int. Ltd	.(P.R.)	Eastman Chemical Int. Ltd.
13116	Antifoam "A" Emulsion	Dow Corning (P.R.)	(PHL).	Dow Corning Manuel Del Valle
14542	Ethylcellulose NF 10 CPS	Hercules Powder Co. Dow Chemical Inter-Americ Ltd.		Hercules Powder Co. Ochoa Ind. . Callahan Chem. Co.
14567	Explotab NF XV (Carboxymethyl Starch)	Edward Mendel Co. Inc.(P.	R.)(PHL) .	Edward Mendell Co., Inc.
13956	Opaspray K-1-3843	Colorcon, Inc.	(P.R.)	Colorcon, Inc.
15017	Opacode Monogramming lik S-1-8090	Colorcon, Inc. (P.	.R.)(PHL)	Colorcon, Inc.
16050	Phenol U.S.P.	J.T. Baker Mallinckrodt, Inc. Matheson, Coleman & Bell Dow Chemical	(P.R.) (P.R.) (P.R.) (P.R.)	Manuel Del Valle Ochoa Industrial Unicore Chemical Inc. Riverside Chemical SK&F Labs. Phila. American Hospital Supply Merck.& Co.

		Manufacturer	-	
ock	Der ption;	p. (P.R.)	(PHL)	AASF Wyandotte Corp () (Industrial Chemicals p) (200
>104	rluronic F-68 (Polyoxy-ethylene-polyoxypropylene)	(Industrial Chemicals Group)		·
I	(Glycol F-00)	G.A.F. Co. * (P.R.	(PHL) (PHL)	G.A.F.  BASF Wyandotte Corp.  (Industrial Chemicals p)  G.A.F.  BASF Wyandotte Corp.  (Industrial Chemicals Group)  Manuel Del Valle  Gallaban Chem. Co.
6210	Povidone U.S.P. (Plasdone C30, Polyvinylpyrrolidone)	(DR	.) (PHL)	Manuel Del Valle
16296	Propylene Glycol U.S.P.	Union Carbide Chem. Co.	(PHL)	Callahan Chem. Co
16290		Tenneco Chem., Inc. (P.R	R.)(PHL)	National Starch & Chem. Corp.
16310	Propylparaben U.S.P.	National Starch & Chem Corp.	(P.R.)	R.P. Chemical Enterprises, Inc.
16497	Resyn 33-1478 Sodium Saccharing N.F.	The Sherwin-Williams Co. IKUWA Chemical Ltd.	(PHL) (PHL) (PHL)	George Uhe Co. McKesson & Robbins
16799	Southin 3800me.	Aisan Chemical Ltd.	.R.) (PHL)	Mallinckrodt, Inc.
16775	Sodium Phosphate U.S.P.	Mailinckiout,	.R.) (PHL)	Mallinckrodt, Inc. Ochoa Ind.
16660	Sodium Bisulfite U.S.P.	Mallinckrodt, Inc. (P	•	Manuel Del Valle
•	•	Mallinckrout, """	P.R.)(PHL) (P.R.)	Mallinckrodt, Inc. Unicore Chemical, Inc. Manuel Del Valle
16702	Sodium Chloride U.S.P.	J. T. Baker	· / • / • /	E.I. Dupont De Nemours
	Sodium Lauryl Sulfate U.S.P.	E. I. Dupont De Nemours (	(P.R.) (PHL) (P.R.) (PHL)	Merck & Co.
· 16750 16868	Sorbitol Solution U.S.P.	Merck & Co.		Fritzsche Dodge & Olcott, Inc.
16894	Natural Spearmint Flavor #21407	Amstar Corp.	(P.R.) (PHL) (PHL)	Able Sales Tuner Brothers
16995	Sugar, Standard Granulated (Sucrose, NFXV)	Jack Frost  'British Sugar Corporation		SmithKline & French Labs. Ltd England
16996	Beet Sugar (Sucrose, U.S.P.)	* GENERAL ABILINE & FILE		
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Stock	Description	Approved Manufacturer		Supplier
17353	Talc U.S.P. XIX	Whittaker, Clark & Daniels	(P.R.)(PHL)	Whittaker, Clark & Daniels
	(WC&D #2755) Lo-Micron			SK&F Labs, Phila.
16942	Starch .	A.E. Staley Mfg. Co. National Starch & Chemical	(P.R.)	A.E. Staley Mfg. Co. Able Sales
		Macronal Scaren o chemical	(P.R.) (PHL)	
14023	FD&C Blue #2 Aluminum Lake	Colorcon, Inc. Buffalo Color Corp.	(P.R.) (P.R.)	Colorcon, Inc. Buffalo Color Corp.
14145	FDEC Yellow #6 (Sunset Yellow)	H. Kohnstamm & Co. Allied Chemical Corp.	(P.R.)(PHL) (P.R.)(PHL)	H. Kohnstamm & Co. Allied Chemical Corp.
15502	<ul> <li>Hydroxypropyl Methylcellulose USP (Methocel•E15 Premium)</li> </ul>	Dow Chemical	(P.R.)	Ochoa Industrial . Callahan Chem. Co.
15454	Mafco Magnasweet #180	McAndrews & Forbes	(P.R.)(PHL)	McAndres & Forbes
15460	Magnesium Stearate, U.S.P.	Mallinckrodt, Inc.	(P.R.) (PHL)	Mallinckrodt, ľnc.
11680	Methylene Chloride, Technical Grade	Vulcan Materials Co. Dow Chemical Diamond Shamrock Chem. Co.	(P.R.) (P.R.) (PHL) (P.R.) (PHL)	Manuel Del Valle Ochoa Industrial Callahan Chem. Co. Pioneer Salt Chem. Co.
15523	Methylparaben, U.S.P.	Tenneco Chemicals, Inc.	(P.R.)(PHL)	Tenneco Chemicals, Inc.
10284	Bromobenzene, Technical Grade (Monobromobenzene)	Dead Sea Bromide Group Great Lakes Chemical Group	(P.R.) (PHL) (P.R.) (PHL)	Ameribrom, Inc. C/O R.P. Chemical Enterprises, Inc. E.B. Knight Ochoa Industrial
10527	Chlorobenzene, Technical Grade (Monochlorobenzene)	Allied Chemical E.I. Dupont De Nemours Dow Chemical	(P.R.) (P.R.) (P.R.)	R.P. Chemical Enterprises, Inc. SK&F Labs., Phila. Ochoa Industrial
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ci	escription  hloroform, Technical Grade  Cupric Carbonate, Powdered  Dimethylformamide, Technical Grade	Allied Chemical Dow Chemical Vulcan Material Co. Chemetron Corp. Cities Service Corp. (CITCO)  E.I. Dupont De Nemours MitsuBushi Gas Co.  Allied Chemical	(P.R.) (PHL)	R.P. Chemicals Enterprises, Inc.  Ochoa Industrial Manuel Del Valle  Chemetron Corp. McGean Chem. Corp. Cities Service Corp. (CITCO) SK&F Labs., Phila.  E.I. Dupont De Nemours McKesson & Robbins ICC Solvents & Chemicals Ochoa Industrial  L) R.P. Chemical Enterprises, Inc. Textile Chemical Co.	
323	Hydrochhoric Acid, Technical Grade (Muriatic)	PPG Industries		Manuel Del Valle Ochoa Industrial	1
1500 11521	lodine "Isopropyl Alcohol, NF	ChileanNitrate Sales  Shell Chemical Co. Union Carbide Chem. (Esso, Inc. (Esso Inc. corporate name in P.  Arco Chemical Co. Texas City Refining Exxon Chemical Co. (Exxon Chemical Co. name in the U.S.).	(P.R.) (P.R.) (P.R.) (P.R.) (P.R.) (P.R.) (P.R.) (P.R.)	PHL) Shell Chem. Co. PHL) Union Carbide Chem. Co. R.) Manuel Del Valle Ochoa Industrial R.P. Chemical Enterprises, Inc. (PHL) Arco Chem. Co. (P.R.) (PHL) Exxon Chem. Co. (P.R.) (PHL) Exxon Chem. Co.	·•
10013 11694	M-Aminobenzotrifluoride N-Methylpiperazine	Olin Corp. Union Carbide Cher Rexolin Chemicals	11. CO. (P.R.	.)(PHL) Union Carbide Chem. Co)(PHL) S.S.T. Corp. Manuel Del Valle Ochoa Industrial R.P. Chemical Enterprises, Able Sales SKCF-Phile.	inc.

		<b>,</b>		Page 5 of <b>8</b>
<u>)ck</u>	Description :	Approved Manufacturer		Supplier
80	Potassium Carbonate, Calcined (Anhydrous)	Sorbin Chemical Co. Allied Chemical Hooker Chemical Corp. Commercial Solvents Corp. (IMC Chemical Group)	(P.R.) (PHL) (P.R.) (PHL) (PHL) (PHL)	Bodman Chemical Co. McKesson & Robbins Allied Chemical R.P. Chemical Enterprises, Inc. Ochoa Industrial Manuel Del Valle Commercial Solvents Corp.
189	Potassium Hydroxide, U.S.P. Pellets	Mallinckrodt, Inc. J.T. Baker	(P.R.) (PHL) (P.R.) (PHL)	Mallinckrodt, Inc. Manuel Del Valle Ochoa Industrial.
385	Sodium Amide (Sodanide)	Farchan Div. Chemical Samples Co. (Chemsampco, Inc.)	(P.R.) (PHL)	Chemsampco, Inc.
621	Sodium Benzoate, N.F. XV (Powder)	Tenneco Chemicals, Inc.	(P.R.)(PHL)	Tenneco Chemicals, Inc.
*C4 <b>6</b>	Sodium Biphospate, U.S.P.	Mallinckrodt, Inc.	(P.R.) (PHL)	Mallinckrodt, Inc. Ochoa Industrial Unicore Chemical Inc. Manuel Del Valle
o504	Sodium Hydroxide, U.S.P. (Pellets) 97% (Also purchased as Caustic Soda)	Mallinckrodt, Inc. Allied Chemical PPG Industries	(P.R.) (PHL) (P.R.) (P.R.)	Mallinckrodt, Inc. Ochoa Industrial Manuel Del Valle R.P. Chemical Enterprises, Inc. Allied Chemical Callahan Chem. Co.
58 <b>26</b>	Sodium Tartrate, ACS Reagent Grade	Mallinckrodt, Inc.	(P.R.)(PHL)	SK&F Labs., Phila. Ochoa Industrial Mallinckrodt, Inc.
araj	Sulfur, Sublimed, N.F.	Stauffer Chemical Co.	(P.R.)(PHL)	SK&F Labs., Phila.
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Stock	no liption	Manufacturer		Supplier
12700	Toluene, Nitration Grade	Allied Chemican American Mineral Spirits Co. Hoss Oil Corp. Esso, Inc. CORCO, Inc. Texaco, Inc.	(P.R.) (P.R.) (PHL) (P.R.) (P.R.) (P.R.) (PHL)	Allied Chemical Manuel Del Valle R.P. Chemical Enterprises, Inc. Ochoa Industrial CORCO, Inc. Esso, Inc. Hess Oil Corp.
12729	Triethylamine	Pennwalt Chemical Co. Union Carbide Chemical Co.	(P.R.) (PHL) (PHL)	Pennwalt Chem. Co. Union Carbide Chem. Co. SK&F Labs., Phila.
12750	Trimethylene Chlorobromide (Also purchased as TMCB)	Rhone-Poulenc Steetly Chemicals Ltd. Shell Ltd. Dead Sea Bromide Group	(P.R.) (PHL) (PHL) (P.R.) (PHL) (P.R.) (PHL)	Rhone-Poulenc George Uhe Co. Acic Ltd. Ameribrom, Inc. C/O R.P. Chemical Enterprises, Inc. E. B. Knight, Inc. SK&F Labs., Phila.
16285	Primojel EliMINATED AS PER EIEWald Memo of 2/24/11. @ 3/18/17.	Edward Mendell Co.	(P.R.)(PHL)	Edward Mendell Co. ELIMINATEDASA.  SK&F Labs., Phila. F.DE WAH Memo ci. 2/2-6/81. (3)
16919	Alcohol, S.D. Spirits #30	P.R. Distillers U.S. Industrial Chemical Co Commercial Solvents Corp. (IMC Chemical Group)	(P.R.) . (P.R.)(PHL) (P.R.)(PHL)	P.R. Distillers U.S. Ind. Chem. Co. Commercial Solvents Corp. Bodman Chemical Co.
15779	Nitrogen, U.S.P. (GAS)	Matheson Div., Will Ross, I Air Products Woodland Oxygen Co., Inc. Linde Div., Union Carbide C General Gases Corp.	(PHL) (PHL) Corp. (PHL)	Woodland Oxygen Co., Inc.
11332	Hydrogen Chloride Gas, Anhydrous	Vulcan Material Co. Air Products & Chemicals, I Gas Products Corp.	(PHL) nc. (PHL) (P.R.)	) Air Products & Chemicals, Inc.
		* Commonwealth Oil Refining	g.Co., Inc.	

Allied Chemical American Mineral Spirits Co. Hcss Qil Corp. Esso, Inc. CORCO, Inc. Texaco, Inc.  Pennwalt Chemical Co. Union Carbide Chemical Co.	(P.R.)(PHL) (P.R.) (P.R.) (P.R.) (P.R.) (PHL)	Allied Chemical Manuel Del Valle R.P. Chemical Enterprises, Inc. Ochoa Industrial CORCO, Inc. Esso, Inc. Hess Oil Corp.	GSK-PROTECO_000080
	/n n \/nui\		J
	(P.R.) (PHL) (PHL)	Pennwalt Chem. Co. Union Carbide Chem. Co. SK&F Labs., Phila.	
Rhone-Poulenc Steetly Chemicals Ltd. Shell Ltd. Dead Sea Bromide Group	(P.R.) (PHL) (PHL) (P.R.) (PHL) (P.R.) (PHL)	Rhone-Poulenc George Uhe Co. Acic Ltd. Ameribrom, Inc. C/O R.P. Chemical Enterprises, Inc. E. B. Knight, Inc. SK&F Labs., Phila.	
Eix Wold Edward Mendell Co.	(P.R.)(PHL)	Edward Mendell Co. ELIMINATEDASE. SKEF Labs., Phila. F.DE WAH Memo of 2/2-6/81. (7.3)	
P.R. Distillers U.S. Industrial Chemical Co Commercial Solvents Corp. (IMC Chemical Group)		P.R. Distillers U.S. Ind. Chem. Co.	
Air Products Woodland Oxygen Co., Inc.	(PHL) (PHL) Corp. (PHL)	Air Products Woodland Oxygen Co., Inc. Linde Div., Union Carbide Corp.	
	Inc. (PHL)	) Air Products & Chemicals, Inc.	
	Commercial Solvents Corp. (IMC Chemical Group)  Matheson Div., Will Ross, Air Products Woodland Oxygen Co., Inc. Linde Div., Union Carbide General Gases Corp.  Vulcan Material Co. 'Air Products & Chemicals, Gas Products Corp.	Commercial Solvents Corp. (P.R.) (PHL) (IMC Chemical Group)  Matheson Div., Will Ross, Inc. (P.R. Air Products (PHL) Woodland Oxygen Co., Inc. (PHL) Linde Div., Union Carbide Corp. (PHL) General Gases Corp. (P.R. Vulcan Material Co. (PHL) 'Air Products & Chemicals, Inc. (PHL)	Commercial Solvents Corp. (P.R.) (PHL) Commercial Solvents Corp. (IMC Chemical Group)  Matheson Div., Will Ross, Inc. (P.R.) Matheson Div., Will Ross, Inc. (PHL) Air Products Woodland Oxygen Co., Inc. (PHL) Woodland Oxygen Co., Inc. Linde Div., Union Carbide Corp. (PHL) Linde Div., Union Carbide Corp. (P.R.) General Gases Corp.  Vulcan Material Co. (PHL) Vulcan Materials Co. (PHL) Air Products & Chemicals, Inc.

Stock	Déscription	Approved Manufacturer		Supplier
12050	Petroleum Ether	J. T. Baker Chemical Co.	(P.R.)	Manuel Del Valle
12902	Yellow Wax, N.F. XIII	Frank B. Ross Co.	(P.R.) (PHL)	Frank B. Ross Co.
:3001	Acacia, N.F. XV Spray Dry	Stein Hall & Co., Inc. Tragacanth Importing Corp. (T.I.C.)	(P.R.) (PHL) (P.R.)	John K. Grewe Able Sales
13067	Glycine U.S.P. (Amino Acetic Acid)	Chattem Chemicals (Division of Chattem Drug and Chemical Company)	(P.R.)	Chattem Chemicals
13300	Flavor Compound #21145 (Artificial Banana Vanilla)	Fritzsche Dodge & Olcott !	nc. (P.R.)	Fritzche - D & O Merck & Co. Manuel Del Valle
13325	Benzyl Alcohol, Reagent Grade	Merck & Co.	(PHL)	Arthur H. Thomas ' SK&F Labs., Phila.
13414	N-Butyl Alcohol, Reagent Grade	Shell Chemical Co. J. T. Baker Chemical Co. Fisher Scientific	(PHL) (P.R.) (P.R.)	Shell Chemical Co. Manuel Del Valle Fisher Scientific
13600	Carnauba Wax, Powdered NF XV	Frank B. Roos Co., Inc.	(P.R.)(PHL)	Frank B. Ross Co., Inc.
14024	OPALUX AS-4277	F. G. Okie, Inc., Division of Colorcon, INC.	(P.R.)	F. G. Okie, Inc., Division of Colorcon, INC.
14131	FD&C Yellow #5 (Tartrazine)	H. Kohnstamm & Co. Allied Chemical Corp.	(PHL) · (PHL)	H. Kohnstamm & Co. Allied Chemical Corp.
1/1543	Ethyl Cellulose, N.F. XIV 15 cps.	Hercules Powder Co.	-(PHL)	Hercules Powder Co. Ochoa Ind. Callahan Chem. Co. SK&F Labs., Phila.
14740	Glycerin, U.S.P. XIX	Proctor & Gamble	(P.R.) (PHL)	Manuel Del Valle Proctor & Gamble

Stock	ription	Approved Manufacturer		Supplier
14700	Gelatin, U.S.P. XIX (Hy Prime P)	Kind & Knox Gelatin Corp.	(PHL)	Supplier  Kind & Knox Gelatin Corp.
14925	Hydrochlorothiazide, US.P. XIX (Ciba Code 304464)	Ciba Pharmaceutical Co., Chemical Sales Division, Ciba-Geigy Corp.		Ciba Pharmaceutical Co.
15218	Lactose, U.S.P. XIX Spray Dried	Foremost Foods Company . Samrak Chemical Corp.	(PHL) (P.R.)	McKesson & Robbins Able Sales Co., Inc. Unicore Chemical Inc.
15546	Light Liquid Petrolatum U.S.P.,XX	Witco Chemical	(PHL)	SK&F Labs., Phila Witco Inter-American Corp. L. Sonneborn Sons, Inc.
16150	High Density Polyethylene (CITCO Code CS-212)	Cities Service Company (CITCO)		CITCO .
16205	Polysorbate 80 NF XV (Tween 80)	ICI Americas, Inc.	(PHL)	ICI Americas, Inc. Carmac Chemical Co.
16950	Stearic Acid, Powdered NF XV (Emery Code Emmersol 6332)	Emery Industries, Inc.	(PHL)	Emery Industries, Inc.
16991	Confectioner's Sugar NF XV 6X (with 3% starch)	Amstar Corporation National Sugar	(PHL) (PHL)	Turner Brothers Able Sales Co., Inc.
17393	Calcium Sulfate, N.F. XIV (Dihydrate) (Also purchased as Terra Alba)	British Gypsum Ltd. Whittaker, Clark & Daniels,Inc.	(PHL) (PHL)	Bodman Chemical Co. Whittaker, Clark & Daniels, Inc. Charles B. Crystal Co., Inc.
19007	PL-4587 Tan Polyethylene Unicolor 1:18-	Westchester Plastic Division, Ametek, inc.	(PHL)	Westchester Plastics Div., Ametek, Inc.
22950	Triamterene U.S.P. XIX	SK&F Chemical Division American Cyanamid Co,		SK&F Chemical Division American Cyanamid Co.
14927.	Hydrochlorothiazide, U.S.P. (Ciba Code 304463)	Ciba Pharmaceutical Co., Chemical Sales Division, Ciba-Geigy Corp.		Ciba Pharmaceutical Co.